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San Francisco
Mechanics' Institute
Catalogue of 14th Exhibition
1879.

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Descriptive Catalogue

—OF THE—

FOURTEENTH INDUSTRIAL EXHIBITION

—OF THE—

Mechanics' Institute,

Of the City of San Francisco.

Published under Authority of the Board of Managers.

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DEWEY & CO.,

Publishers of the "Mining and Scientific Press," "Pacific Rural Press," and "Mechanics' Fair Daily,"

No. 202 Sansome Street, S. F. Cal.

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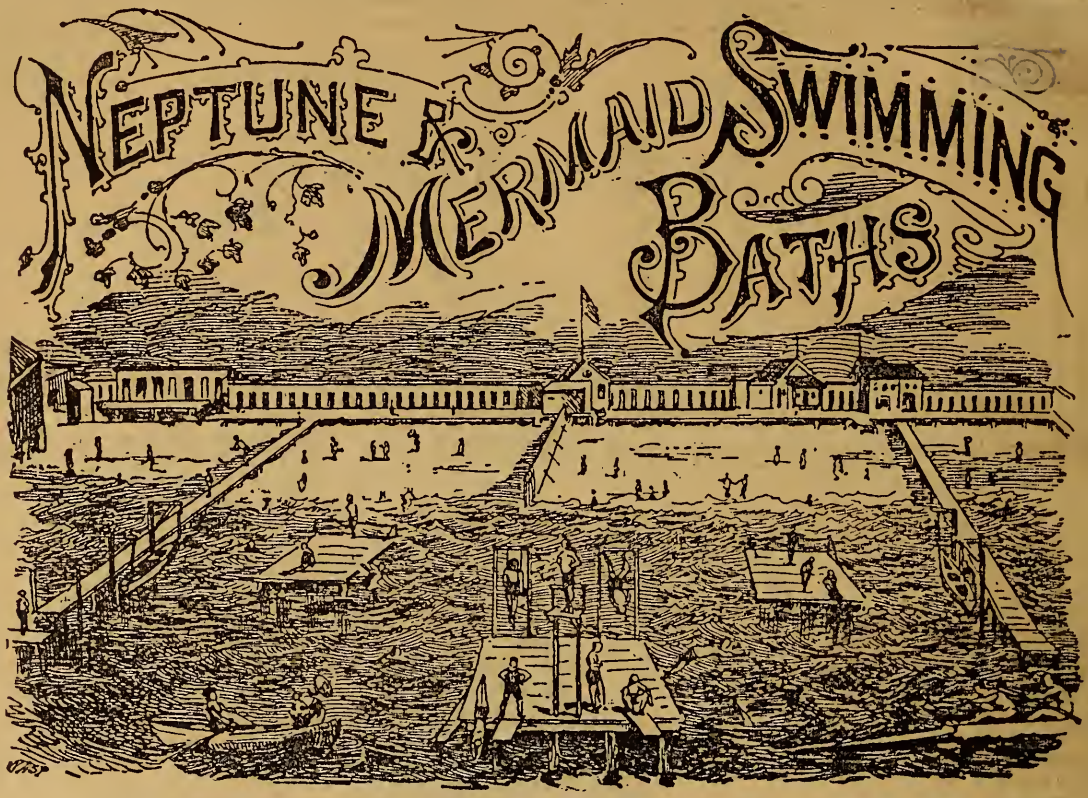
See J. G. Montealegre's Best Coffee adv. on last page of Cover

UNDY'S JEWELRY and CLOCK Store, 7 and 9 Third St. Watches Repaired and Warranted.

Neptune and Mermaid Baths, foot of Larkin and Hyde Sts. (See next page.)

See Advertisement of J. G. Montealegre's Best Coffee on Last Page of this Cover.



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Why go to Alameda to Swim or Bathe, when you can have a Fine Natural Beach, with water direct from the ocean? Why wade in a tank, when you can disport in the clear, crisp, invigorating, untainted tide? These are Points for Swimmers to Consider.

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W. H. BOVEE, Proprietor.

This Catalogue is printed on paper from BLAKE, ROBBINS & Co., Dealers in Printing and Blank Paper, Card Printers' Stock and Paper Bag Manufacturers, No. 516 Sacramento Street, S. F.

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CATALOGUE.

Explanations.

The Pavilion is divided into eight divisions, indicated by the figures 1, 2, 3, 4, 5, 6, 7 and 8 at the ends; also 26 sections, indicated by the alphabet, viz.: A, B, C, and so on. Division 1 embraces all exhibits along the wall on the Eighth street side. See diagram of the ground plan of the Pavilion published herewith. Large letters and figures are posted up, near the ceiling, in the Pavilion, corresponding to those used in this Catalogue. Also see plan of Gallery in the latter part of this Catalogue.

The Gallery [see plan published herewith] is divided into five divisions, as indicated by the dotted lines in the diagram. The Art Gallery has a separate Catalogue; its rooms are known as Nos. 1, 2 and 3.

The following abbreviations will be used throughout the Catalogue :

Division;	Section;	Gallery;	Middle;	Room	Floor.
div	sec	gal	md	rm	fl

For instance, "div 8, sec E and F," is used in abbreviation for Division 8, Sections E and F;" "rm 3, art gal," for Room 3, in the Art Gallery;" "md rm" for Middle Room." The South Room of Art Gallery, is known as "the Art Gallery.

The publishers can only include in this list such articles as have been duly entered in the books of the Exhibition and receipted for by the Entry Clerks. Notice of any errors or omissions should be given to the Secretary of the Board of Managers or the publishers without delay. This list has been as carefully prepared as as possible by the Entry Clerk. Several editions will be issued.

---

1. California Wire Work Company : Bowers and Summer Houses ; Wire Fences and Gates; Chairs, Baskets and Designs; Bird Cages, Aquariums and Flower Stands. div 3 and 4, sec E and F.

This important exhibit embraces the following fine samples of:

Useful and decorative wire manufactures.

Wire screen cloth—brass, copper, iron and steel.

Wire cloth of all grades for numberless uses.

Galvanized twist-wire netting, for fences, partitions and enclosures—strong, cheap and durable.

Coal, ore and gravel screens, riddles and sieves, white lustral wire, miscellaneous goods.

Traps for rats and mice.

Wire gates, fences and railings, of plain and ornate designs, for business offices, gardens, cemetery lots, etc.

Octagon garden bowers or flower temples, of galvanized diamond wire work, with ornamental domes, 8 feet diameter by 12 feet high, made and bolted together in convenient separable sections.

Wire garden arches, of various patterns and sizes.

Settees, chairs, tables, etc., of painted wire work, for garden, lawn and general outdoor use.

Flower-pot stands, of simple and elaborate design—an elegant and attractive assortment of the latest and most unique styles.

Aviaries and singing-bird cages of numberless patterns ; breeding cages, squirrel cages, robin, parrot, paroquet and mocking-bird cages.

Wire dress figures, suit frames, etc., the most fashionable and durable.

Fireplace fenders and spark guards.

Diamond wire-work window guards—the most efficient protectors of basement and all exposed windows, etc.

These goods are situated on the left side of the main hall and almost immediately in front of the main entrance to the pavilion. The large salesrooms of the Company are at No. 6 California street.

Wire Screen Cloth, Brass, Copper, Iron and Steel Wire Cloth of all grades; Galvanized Twist-wire Netting; Coal, Ore and Gravel Screens ; Riddles and Sieves ; Improved Parallel Locked-wire Coal, Ore and Gravel Screens ; Wire Dress Figures ; Suit Frames; Wire Floral Designs and Emblems; Miners' Safety Lamps ; Casting Brushes and Spiral Springs ; Household Utensils of every description.

2. Hemphill, Henry : Land, Fresh-water and Marine Shells of California and Adjacent States. div 5, sec J

3. Davis, Lewellen : A Model Full Rigged Ship, "Challenge." no rm art gal

4. Nast, Greenzweig & Co.: Cut Glassware; Silver-plated Ware, of Meriden Silver Plate Co. div 4, sec O

5. Nunes, Antonio Luiz: A Model Full Rigged Ship, "Glory of the Seas." md rm art gal

6. Tucker, Mrs. J. T.: Pacific Fruit Drier. div 7, sec E

7. Schroeder, William : Paintings from the New Art Gallery. div 3, sec F

8. Glanny, Alfrada: A Silk Quilted Sofa Cushion. div 1, gal

9. Dewey & Co.: Glass Case containing models of Inventions Patented in U. S. and Foreign countries ; Glass Case containing models of Patented Inventions, Ingenious Devices, Art Designs, Trade Marks, etc. div 5, sec Q

This case contains representative models of a few among thousands of inventions which have been patented through the Mining and Scientific Press Patent Agency. On this coast the

patent business has grown from very modest to quite pretentious proportions, the gradual increase keeping pace with the industrial progress of the country. Dewey & Co. have been in the American and Foreign patent business now for more than 19 years in this city, and during that time have assisted thousands of inventors in perfecting their patents. Many of their clients have amassed fortunes from their inventions, and others, again, enjoy comfortable incomes of more modest proportions, the result of their labors. The firm have the most complete technical library on the coast, comprising all the patent office reports, official gazettes, full files of complete specifications and drawings, bound and indexed, mechanical and chemical encyclopediæ, mechanical text-books, bound files of mechanical and industrial journals and newspapers, etc. With so many years of varied experience in patents, their advice to inventors is of value, and their assistance in perfecting inventions of great aid to their clients. In patents pertaining to mining and the other mechanical appliances peculiar to this coast, their experience, extending over so long a period, enables them to tell inventors at once what and how much is new in their devices. The models shown in the case are only indicative of the business in which the firm is engaged. This Patent Agency possesses the confidence of the industrial and progressive classes of this coast to a marked degree, as its successful career illustrates. This display will be found at the stand of the MECHANICS' FAIR DAILY, in the Pavilion. The business of this firm is conducted at the office of the MINING AND SCIENTIFIC PRESS and PACIFIC RURAL PRESS, 202 Sansome St., corner of Pine.

10. Rogers, Mrs. Salina: Stars and Stripes Patch-work Quilt. div. 1, gal

11. Fisher, Mr. and Mrs. A. C.: Pickles and Fruits in Jars. div 4, sec L

13. O'Neil, Miss Salina.: A String of Buttons. div 1, gal

14. Recum, Josephine: A Crochet Quilt. div 1, gal

15. Rudolph Mrs. Martha: Net Curtain; 1 Net Scarf (hand made); Breakfast Shawl; Anti-Macasser. div 1, gal

16. Hammer, L. F.: Rag Carpet. div 1, gal.

17. Shreve, G. W.: 2x6 feet Silver Showcases; Fire Arms. div 6, sec N

18. Garrigan, Lawrence: Hotel and Restaurant Waiter. div 6, sec N

19. Marwedel, C. F.: 1 Case Machinists' Tools. div 6, sec K

20. Riemers, Mrs: A Crochet Bed-spread. div 1, gal

22. Walthour, John F.: Parlor Boats. div 5, sec R

24. Verrue, Edmund: Oil Painting. md rm art gal

25. Hecht, J. A.: Specimens of Free-hand Drawing, by pupils of Lincoln Evening School. md rm art gal

26. Wheeler, A.: Oil Painting, "Andromeda." art gal

27. Clark, J. M.: Telegraph Instruments. no rm, art gal

28. Harford, W. G. W.: Eggs of Birds of Prey and Water Birds, from Europe and North America. div 5, sec K

29. Barnett, Mrs. J. P.: Millinery. div 5, gal

30. Stanton, Miss Mollie: Embroidered Pillow Shams. div 1, gal

31. Main & Winchester: Harness, Saddles, Bridles, Robes, Bells, Whips, etc. div 5, gal

It will interest visitors to observe how beautiful this kind of work, when properly arranged, may be made. The business is both wholesale and retail and in consequence we find here represented an unusually large display of all that pertains to harness and saddlery, including collars, saddle-trees, whips, lap-robes, nets, horse-blankets, and a complete assortment in their line of business, all of their own manufacture. We refer any party interested to examine the goods of this, the largest manufacturing firm of this kind in the city, at 214 and 216 Battery street.

32. Williams, Miss Frankie: Pencil Drawings. md rm, art gal

33. Hansell, Emil: Inlaid Center Stand. md rm, art gal

34. Vailes, J. E.: U. S. Army Blacking. div 3, sec P

35. Rau, A. H.: Lawn Mower. div 6, sec O

36. McFadden, Mrs. Abigail: Oriental Paintings. md rm art gal

37. Burr, Alfred: Wood Engravings. div 1, gal

38. Wolfe & Burnham: 9 Frames Architectural Drawings. md rm art gal

39. Allen, Mrs. A. M.: Bed Spread, Shams, Night-gown Holder; Slipper and Comb Case. div 1, gal

40. Bolcoff, Miss Hermia: Embroidered Child's Skirt; Embroidered Lady's Skirt. div 1, gal

41. Dye, F. F.: Pillow Sham Holders and Shams. div 4, gal

These Holders are very simple, complete and useful. They save a great deal of time and trouble in taking off and putting on pillow shams. They are always in place, will keep the shams neat and clean longer, and thus save a large expense in washing, wear and tear. They are decidedly ingenious, as well as pleasing in their simplicity. Office, 408 10th street, Oakland.

42. Hallidie, A. S.: Wire—Bright, Coppered and Annealed Steel, Iron and Galvanized—Wire Rope, Sash Cords, Picture Cords, Pulleys, Wire Staples, etc., etc. div 8, sec G and F

This large and substantial exhibit of California manufactures consists of:

Wire rope of all kinds—flat and round—made from iron or steel wires of all grades; samples

of rope six years in use on the Comstock lode, Virginia City.

Sash cords, picture cords, signal cords, submarine telegraph cable.

Photographs of cable railroad invented and patented by A. S. Hallidie and in use on Clay, California and Sutter streets, in this city.

Wire of all kinds, including bright and annealed makes, coppered, galvanized, Bessemer, Siemens-Martin and crucible steel wire, telegraph and telephone wire, charcoal and all other kinds of wire.

Wire staples, of 20 different sizes.

Wire nails, of 15 different sizes.

All the foregoing manufactures at the Wire-rope Works and Wire Mills of A. S. Hallidie, in this city. Salesrooms at No. 6 California street, San Francisco.

43. Kuhl, Mrs. H.: Embroidery, Crochet, Worsted and Needlework. md rm art gal

44. Poulter, Ruth E.: Pastel Portrait; Crayon Painting, and Decorated Perfumery Bottles. md rm art gal

45. Weed & Kingwell: Brass Goods and Bells. div 7, sec J

46. Pacific Saw Manufacturing Co.: Saws—Circular, Monkey, Sash, etc; Saw Mandrels, Cabinet Scrapers, Sections for Reapers and Mowers, Planing Knives, etc. div 8, sec G, H and I

47. Spaulding, N. W.: Inserted Tooth Circular Saws of different sizes; Patent Saw Teeth, assorted sizes.

48. Miller, M. B.: "Miller's Pressure Fan'-Blower. div 7, sec N

49. Mackay, Alex.: Coir Matting, Tule Lining, Carpet Warps. div 3, sec S, gal

50. Kohler & Chase: Organs, Pianos, Musical Instruments, and Musical Merchandise. div 2, gal

51. Prossick, Mrs.: One Quilt; silk, log-cabin pattern. div 1, gal

52. Minnes, Mrs. R. J.: Buckskin Underclothes; Turf Wool Mittens; Hosiery: Patchwork Quilt; Worsted Coverlid. div 1, gal

53. Prydz, Mrs. Eliza: Embroidered Rug; Embroidered Fire Screen; Knit Cotton Bedspread. div 1, gal

54. Eclipse Incubator Co.: Incubating Machine, regulated by electricity, for hatching eggs. div 1, sec D

This machine answers the purpose of the ordinary fowl, and is regulated by electricity. In order to meet the increasing demand from this coast for the Eclipse Incubators, the manufacturers have opened an agency in this city. The Eclipse has already come into quite general use on t he coast, and gives entire satisfaction. G. G. Wickson, Agent, 349 Market St., San Francisco.

55. Brown, Chas. & Son: 31 Winthrop Ranges, of various sizes; Marbleized Iron, Cooking Utensils, etc. sec M and L, div 2

The Winthrop Portable Range here shown and for which Mr. Chas. Brown, of 18 Dupont street, is agent, is, for beauty of design, economy of fuel, general utility and exquisite finish, incomparable. The automatic oscillating shelf-attachment to the oven is an improvement that calls for the attention of every intending purchaser of a range. The "Winthrop" is, in fact, considered by many as the best range of the times. Mr. Brown is also agent for the Belmont and Parole Ranges, which possess many advantages. The prices are very reasonable.

56. Sutton, Chas. Jr. & Co.: Blk Oil Coats; Yel. Oil Coats; Dbl. Oil Suits; Oil Hats; Oil Hats; Oil Cloth. div 7, sec F

57. Landsberger, I. & Co.: Cal. Brandy; Cal. Champagne, Private Cuvee; Eclipse Extra Dry; Grand Prize Muscatel; Dew of Alps; IXL Bitters. div 3, sec H

Landsberger & Co.'s factory, where the above are manufactured, occupies Nos. 10 and 12 Jones alley, San Francisco. Their preparation is an interesting operation which all may see, and are invited to witness at any time during business hours.

58. Burnell & Turner: Ale and Porter, in bulk, and bottled. div 4, sec J

59. Allen, M. W.: One Family Ex-Top Rockaway; an Open Piano Buggy. div 2, sec V

60. Tubbs & Co.: Manila Rope; Sisal Rope; Oil Well Rope; Tarred Manila; Lanyard Rope; Bale Rope; Raw Material, Hemp. div 5, sec G

61. Filmer William: Model of Wave Power Motion for Pumping Sea Water to a Hight; Model for Placing on Beach. div 6, sec M

62. Falkner, Bell & Co.: Glass Case of Wool Samples; Glass Case Scoured and Unscoured Wool Samples; Glass Case Mohair —all of California. div 5, sec E

This exhibit, consisting of three cases of domestic wools, all fine specimens of the fineness and beauty that exists in our fabric material. The sample of scoured wool is as white as snow and as fine as silken tresses. The specimens of mohair is remarkable for its length and silky appearance. The material makes up into a superior quality of goods, fully up to the standard that is required for market. The eyes of visitors will at once take in the beauty and merits of this exhibit.

63. Pulvermacher Galvanic Co.: 1 Case of Electric Belts and Bands. div 3, sec O

64. Doble A.: Blacksmiths' and Horseshoers' Tools and Miners' Picks. div 8, sec J

65. S. F. Gas Light Co.: Display of Ammonia in Bottles. div 2, sec M

66. Denniston, E. G.: Two cases Replated Silverware; Galvanized Plates. div 3, sec E

67. Waterhouse & Lester: Display of Wagon Materials—Wheels, Spokes, Plates, Felloes, etc. div 2, sec N

68. Beamish P.: Gents' Furnishing Goods, etc.; display of White Shirts, etc. div 5, sec K

69. Miller, M. B.: One Air Pressure Blower.

70. Hubbard Sons, J. B. & Co.: Lamps, Lanterns and Chandeliers; Granite and Plated Ware; Coal Oil Stoves and Trimmings. div 5, sec L

Store, Nos. 120 and 122 Front street.

71. Moeser, Julius: Musical Strings. div 5, sec K

72. Hinckley, C. D.: Braiding Machine for Electric Wire. div 3, sec S

73. Richardson, A. H.: Goldman's Liquid for Mending Crockery, China, Glass, etc.; Pure Rubber Cement for Leather and Rubber Goods. div 3, sec S

74. Dunn, Horace D.: Glass Case, Fishing Tackle, Assorted; Spence's Double Student Lamps; Stands and Shade; Spence' Adjustable Hanging Lamp. div 3, sec O

75. Continental Oil and Transportation Co. Display of Illuminating and Lubricating Oils. div 6, sec L

The warehouses of this company are located on Fifth, Berry and Channel streets, where their oil is received in their own patent compartment cars, and from this point is distributed in bulk or packed in their oil-canning establishment. These oils, imported by rail, are always fresh and sweet, being direct from the refinery. General offices, 120 and 122 Front street.

76. Daniels, John: Display of Home-manufactured Italian and American Mantels. div 1, sec J

The articles here exhibited are of superior cast. The various styles are of both Eastern and California marble, showing the material of the stock which they keep at their warerooms, 421 Pine street. In addition to the above they have, there, a large variety of imported Italian and Scotch granite monuments, which they will sell at the lowest rates.

77. Schoone, Chas.: Tennessee Marble, Mantels Manufactured in Cal. div 1, sec L

78. Rutherford, Mrs. W. P.: Shoulder Braces; Abdominal Supporters; Corsets. div 3, gal

79. Smith, Hiram H. & Co.: Yeagley's Burglar-proof Sash Lock, Sash Holder and Ventilator. div 6, sec J

80. Hawkins Wm.: Milling Machine for milling saw-teeth. div 7, sec P

81. McCollam, Thos. W. & Co.: Samples of Pacific Coast Cod-fish, Boats, Fishing Gear, clothing, etc. div 4, sec V

82. Hamman Baths: Advertising Temple. div 4, sec P

83. Clifford, H.: Patch-work Quilt. div 1, gal

85. Wood, Geo. M.: Specimens of Card Engraving; Steel Stamps; Seals. div 4, sec H

86. Cockrill, T. G. & Co.: Rye and Bourbon Whisky. div 3, sec T

87. Excelsior Manufacturing Co.: One Stove and Furniture. div 2, sec J

88. St. Louis Stamping Co.: Granite Iron Ware, such as Cooking Utensils, etc. div 2, sec J

89. Poulter, Ruth N.: Decorated Wood, Horns, and Fancy Articles. md rm art gal

90. Ackerman Bros.: Display of Goblets, Wine Glasses, Dishes, Chinaware and Ornaments. div 4, sec P, Q and R

91. Tay, George H. & Co.: Stoves, Tinware, Copper Boilers, Cream Freezers, Backus Water Motors of all sizes, etc. div 1 and 2, sec C, D and E

This is one of the most praiseworthy exhibits in the fair, embracing as it does a large assortment of well wrought and finely finished home manufactured articles. George H. Tay & Co., (formerly Tay, Brooks & Backus,) are importers and dealers in metals, stoves and hardware, pumps, iron pipe for water, gas, etc. Manufacturers of copper boilers, plumber's brass goods, pressed ware, Japanned and planished ware; Tin cans of all descriptions for crackers, butter, lard, honey, coffee, spices, etc.; Plain, Japanned and decorated. They also manufacture stoves, portable ranges, French ranges, parlor and box stoves, parlor grates, all sizes and patterns; repair stoves, etc., at their Stove Works, Alvarado, Alameda county. They make, also, the celebrated Backus Water Motor, for running sewing machines, lathes, presses, and other light machinery. Supplying power from ⅛ to six-horse. Nos. 614, 616, 618, Battery street, San Francisco.

92. Flohr, Frederick: Frame Cut in Statuary Marble. md rm art gal

93. Lorquin, E. F.: Articles of Natural History. div 2, gal

94. Doyle, M.: Bas Relief, "The Martyr. art gal

95. Goodyear Rubber Co.: Rubber Goods, Bags, Clothes, Hose, Rugs, Beds, Pillows, Life Preservers, Packing, Dental, Surgical and Druggist's goods, etc. div 6, sec U and V

96. Price, Charles: Ink Drawing. md rm art gal

97. Casey, Miss Lillie: New Zealand "Kauri Gum" Necklace; Embroidered Cushion Cover. div 1, gal

98. Rouse, W. H.: Oil Painting. art gal

99. Ahpel, Emma: Tidy and Sofa Cushion Cover. div 1, gal

100. Day, Geo. F.: Crayon Drawing. art gal

101. Lane, W. E.: Triple Sewer Trap. div 6, sec N

102. Walton, J. R.: Milk Wagon, with Cans. div 1, sec Y

103. Atkinson, Geo. T.: Fancy Turned California Wood Articles. div 5, sec V

104. Hansen, A.: Sofa Bed. sec R, gal

This is the latest improvement in Sofa Beds. It is a full sized Seamless Spring Bed when opened, and smallest sofa when closed.

105. Hendry & Lennon: Iron Wheelbarrows, Patent Wheels, Piece Casting. div 7, sec Y

106. Hermann, C.: Square Case on Base, Counter Case Hats and Caps. div 6, sec L

107. Merrill, P.: Carpet Beating Machine. div 8, sec V

108. Lake, Henry: Patent Blacking. div 3, sec W

109. Laidlaw, Walter: Ransome's Patent Combined Steam Tree Feller and Log Crosscut Saw. div 7, sec S

110. James, David B.: Single Track Railroad and Car. div 6, sec Y

111. Cowles, Mrs. Geo. W. M.: Stock of Millinery. div 5, gal

112. Hudson, H. C.: Superior California Oil, Mustard, Flavoring Extracts, etc., etc. div 4, sec V

113. Browells, J.: Chimney Tops; Patent Chimneys. div 8, sec F

114. Matthai, Richard: Fancy Wood Articles and Wood Turning Machine. div 6, sec M

115. Goldsmith, D. E.: Iron Turbine Windmill, Buckeye Lawn Mower, Buckeye Pump. div 7, sec Y

116. Brown, Mrs. L. L: Silk Patchwork Quilt. div 1, gal

117. Haven, P. I.: Band Saws. div 6 sec I

118. Richardson, A. H.: Goldman's Fire and Water-proof Liquid Cement and Pure Rubber Cement. md rm, art gal

119. Beauregard, N.: Patent Channel Iron Harrows; Carriage Jacks. div 8, sec Z

120. Marder, Luse & Co: Exhibit Pacific Type Foundry. div 7, sec X

121. Weed & Gorie: Samples of Coal. div 8, sec T

122. Maire Thomas: 1 End Spring Piano Buggy. div 1, sec W

123. Williams Henry F.: 1 Section Composite Pavement. div 1, sec Y

124. Gundlach, J. & Co.: California Wines; Gutedel, Riesling, Zinfandel. div 5, sec F & G

125. Meagher, William F.: Sample Ladies' Shoes. div 4, sec P

126. Kelly, P.: Men's and Boys' Boots and Shoes, Ladies' and Children's Shoes. div 3, sec M

127. Dodge & Pierce: Amateur Printing Presses; Columbia Rotary Press; Seals, Copper and Steel Plates; Calling Cards, etc. div 5, sec T

128. California Paper Co.: News Printing Paper (Rolls & Beams); Straw Paper. div 6, sec T

129. American Saw Co.: Circular Saws. div 6, sec X

130. Redstone, A. E.: Quartz Mill; Self Feeder Card Printing Press; Hand Ore-Crusher. div 7, sec U

131. Grundel Julius G.: Samples of Ivory, Amber and Meerschaum Pipes. div 8, sec L

132. Merrill I. L.: Asbestos and Soap-stone in various mineral grades, Fabrics, and also Elastic Boiler Cover. div 7, sec N

133. Ohman, W. H.: Ohman Vertical Engines. div 7, sec N

This engine, by reason of its simplicity, is peculiarly adapted to the wants and uses of those who are not engineers or machinists; intended for every variety of work for which a small engine can be used. It will do more work and with greater economy than any other small engine in the market.

134. Renz, Dr. J: Renz's Herb Bitters; Renz's Blackberry Brandy; Bonanza Bourbon Whisky. div 3, sec K

135. Rieger, Paul: Jamaica Ginger; Flavoring Extracts, etc. div 4, sec I and J

136. Chapman, Charles P.: Peck's Patent Amalgamator, Concentrator and Settler. div 7, sec T

137. Leak, C.: Clothes Washer; Thermometer Shell Churn, Patent. div 6, sec K

138. Carter, Charles H.: Carter's Non-Perforated, Fire-proof Metal Laths and Machine. div 7, sec I

139. Taylor, S. P. & Co.: Manilla and White Paper. div 6, sec S

140. Dunham, Carrigan & Co.: Bronze-Hardware; Case Tools (all kinds). div 4, sec J

141. Gladding, McBean & Co.: Vitrified Ironstone Sewer Pipe; Terra Cotta Goods, Fire Brick. div 7, sec E and F

142. Titus, L. H.: Titus Patent Fruit Picker. div 3, sec X

143. Munckton, Dr. Geo.: Munckton's Pepsin Wine Bitters; Munckton's Liquid Glycerine Soap.

These Pepsin Wine Bitters are of local manufacture, and are said to be a sure cure for all cases of dyspepsia. They are now increasing in use, being prescribed by some of the best of physicians. Dr. Geo. Muckton's Glycerine Soap is used to beautify the complexion, and for all toilet purposes. It is manufactured from choice materials, and on scientific principles.

144. Patik, A.: Chemical Preparations. div 3, gal

145. Pupils of P. A. Espinas: Pen Drawings. (Bernard's Business College). md rm art gal

146. Jackson & Dunn: Universal Wrench. div 7, sec P

147. Gruenberg, Mrs. Max: Pictures, Passe Partouts and Chenille, Embroidery. div 1, gal

148. Wetherbee, Mrs. Amelia: One Coverlid made in 1834. div 1, gal

149. Gallagher, Mrs. J. P.: One Sampler, made in 1808. div 1, gal

150. Clark, Truman S.: Woven Wire Mattresses; Gas Pipe and Brass Bedsteads with Wire Mattress Attached; Metal Cot and Hospital Beds. div 4, gal

151. Ainsworth, D. H. & Co.: Patent Fire Kindling. div 6, sec T

152. Turnbull, B. C.: 1 Pen Drawing. md rm art gal

153. Seivers, Mrs. C.: Hair Work. md rm art gal

154. Dewey, Mrs. A.: Thread Bed-cover; Pitcher, formerly owned by Queen Mary of Scotland. div 1, gal

155. Butler, Miss Kate: Silk Quilt. div 1, gal

156. Hittell, J. S.: "History of San Francisco;" "Resources of California;" "History of Culture." div 1, gal

157. Whitman, Mrs. E. J.: Kettle Scraper and Fish Cleaner. div 4, sec Q

158. Lan, H. H: Patent Whip Socket with Combination Lock; Patent Whip Socket with Key. div 1, sec R

159. Bissell, J. L.: Paper Frames. art gal

161. Franco-American Perfumery Co. (A. Calmann): All Kinds of Perfumeries. div 5, sec B, gal

The articles exhibited are all their own make, being the only manufacturing Perfumers on the Pacific Coast. Laboratory, Salesroom and Office, No. 120 Sutter street.

162. Newton, Geo.: Stylograph Copy Books; Stylograph Pens; Heberling Running Stitch Sewing Machines; Dearborn Parlor Duster; Perfection File and Binder. div 3, sec E, gal

This exhibit has two articles that are exceedingly useful, and entirely new on this coast. The Heberling Shirring machine, and the Perfection Letter File and Binder. Call and examine at the stand in the pavilion, or at 12 California St.

163. Kusel, S. A.: White Shirts; Gents' Underwear. div 5, sec L

164. Bancroft, A. L. & Co.: 3 Presses and Equipment; 1 Show Case; Imposing Stone and Frame; Cabinet and Type; Cyclopedia Britanica. div 5, sec Q

165. Sterlitz, Mrs. J.: Worsted Table Cover; Worsted Picture, "Dom Pedro;" Worsted Picture, "Finding of Moses;" Oval Wrought Worsted Picture. md rm art gal

166. Yates & Co.: Practical Horse-Shoe Makers. div 7, sec S

167. Perkins, Joseph: Metallic Signs. div 1, sec E, gal

168. Esther, Alexander: Specimens Free-hand Drawing. md rm art gal

169. Northy & Wagar: Buggy; Phaeton; Business Wagon. div 2, sec Z

170. Standard Soap Co.: Exhibit of Fancy and Laundry Soaps. div 4, sec I

171. Tate & Hanque: Wood Branding and Printing Press. div 7, sec S

172. Whittier, Fuller & Co.: Pails, Casks and Kegs of "Pioneer Lead." div 6, sec G

173. Dickerson, W. J.: 10-Foot Rule. div 7, sec W

This useful rule, answering the purpose of a 10-foot-pole, will take all measurements less than 10 feet with the same facility that measurements less than two feet can be taken with a common rule.

174. Morris, C. R.: Frame of Cancelled Revenue Stamps. md rm art gal

176. Buckmann, Albert: "Dough" Frame. md rm art gal

177. Woodworth, Mrs. James: Embroidered Quilt (made in Kentucky). div 1, gal

178. Cotter, Mrs. J. E.: Vase Wax Flowers. md rm art gal

179. King, David J.: Artists' Pantographs. div 5, gal.

This is a simple, mechanical apparatus, which enables any person to do at once that which would require a long course of instruction and practice to accomplish in the usual way. The art of drawing portraits from small photographs to life-size is so mechanical and easy, every outline and shade in the copy being clearly delineated by the instrument, that a successful knowledge may be acquired by a single trial. Any boy or girl can learn to draw or sketch in ten minutes. Over 100,000 were sold during the Centennial. David J. King, 114 Hyde street, S. F., Cal.

180. Heald's Business College: Plain and Ornamental Penmanship; Telephones; Telegraph Instruments. div 4, sec I

This large and superior display of plain and ornamental work represents the result of a thorough course of instruction at their Business College, 24 Post St.—a college whose merits are too well known to those of the Pacific coast to need recommendation; whose graduates are prepared thoroughly for all branches of business. Their telephone and telegraph instruments exhibited in the pavilion are connected with the central and branch offices in the city, and messages can be sent by either at all times. Parties desiring a thorough practical education can find no school equal to this on this coast.

181. Douglass, Miss Ettie: Thread Tidy div 1, gal.

182. Woodward, R B.: Cases of Natural History; an Oil Painting. div 2, gal

183. Owens, J. B.: Stoneware; Terra Cotta Vases; Flower Pots. div 7, sec F

184. Pacific Gold, Silver and Nickle-plated Ware Co.: Plated Ware. div 4, sec N

185. Hinkley, Ezra: Spring Beds; Bedstead and Mattress; Tables. div 3, sec J

186. Donahue, Mrs. L. M.: Worsted Embroidery and Fancy Work. div 1, gal

187. Pierce, W. H. & Co.: Portrait. md rm art ga

188. Schoenfeld & Heyman: Sofa Beds; Sofa Chair Bed; Furniture. div 3, gal

The above firm manufacture the Koser Patent Sofa Bed. It is a handsome piece of furniture, as well as useful. They are superior in style and finish, and when used make a very comfortable bed. These Sofa Beds are made to order. The firm also keep a large assortment of cheap and medium grade solid Walnut Furniture, which they offer at the very lowest prices. Furniture warerooms, 749 Market St.

189. McDonald & Williams: Clothing; Piece Goods. div 4, gal

This firm make a very tasteful display of clothing and piece goods for gentlemen. They also take orders, fit, cut and manufacture on the spot. Their goods are of excellent quality, and their workmanship not to be excelled in this market. They can furnish suits from $20 upwards and guarantee all of their work, refunding the money if not satisfactory to customers. Call and see them at the Pavilion, or at their establishment, No. 14 Montgomery street.

190. Utschig, John: Boots and Shoes. div 5, sec L

The above is an elegant assortment of boots and shoes exhibited by John Utschig, the fashionable maker of 326 Bush street. It is asserted that orders are executed by him at the lowest possible prices compatible with the quality and superior finish of the goods supplied. His exhibit of alligator boots with enamelled leather legs, and grain boots, demand special notice as, it is said, they have never been equalled on the coast. They are truly remarkable for their "everlasting" qualities of wear. All orders, he assures us, are executed with unfailing punctuality.

191. Hawkins, William: Patent Elevator Hoist. div 9, sec O

192. Kuhling, A: Iron Bedsteads. div 4, gal

193. Kertell, Chas: Bust of Toby Rosenthal; 2 Busts, "Mirth and Modesty;" Antique Carving; 3 Pieces Rough Carving; Bust (wood) of Byron; Plaster Bust, "Norton I.;" Statue, "Madonna;" Picture Frame. N rm art gal

194. Poheim, Joe: Gents Clothing; Cloths. div 5, gal

195. Hemme & Long: Pianos. div 4, gal

196. Jackson, R. W.: 3 Cases Abalone Jewelry. div 5, sec L

197. Frank Brothers: Agricultural Implements. div 3 and 4, sec L

198. Barnett, Milton: Crystallized Silver Trees. div 1, gal

199. Roland, Mrs. R. R.: Fancy Work. div 1, gal

200. Cal. Boiler Works: Steam Boiler. div 7, sec N

201. Davis Bros.: Plated Ware, Clocks, Children's Carriages, etc. div 5, sec R

202. Cal. Electric Light Co.: Brush Electric Light.

203. Burr, C. C. & Co.: Mustard, Spices, Cream Tartar, Cal. Salad Oil, Mustard Cake. div 6, sec V

204. Taylor, Jas. S & Co.: Champagne Baking Powder. div 7, sec V

205. Dinsmore, Mrs. Sam'l: Vase of Paper Flowers. middle rm art gal

206. Smith, Miss L.: Crayon Picture. middle rm art gal

207. Wilburn, Miss Georgia: Pillow Shams and Sheet. div 1, gal

208. Wilburn, Mrs. E. A.: Pillow Shams and Sheet. div 1, gal

209. Mallon, John: Display of Cut, Grained, Beveled, Embossed and Bent Glass and Church Windows; Bent Mirrors, beveled. div 3, sec Q and R

210. Garratt, W. T.: Bells; Gongs; Brass Cannons; Coffins, patent valves; Stoddard's Patent Steam Condenser; Lanergans Patent Lubricators and Oilers; W. T. Garratt's Patent Fire Hydrants; Garratt, Babbit and Railroad Metal; Iron "Shell-flanged" Globe Valves; Portable Forges; Water and Gas Gates; Sample Racks of Pipe and Casing; Scotch Glass Tubes; Hooker's Patent Steam and Double-acting Pumps; Brass Pumps, Plumbers and Gas-fitters Pumps; Copper Liquor Pumps; Brass and Copper Rod; Brass Tubing; Water-wheels; Logging Jack; Steam Traps; Government Safety Valves; Hose Pipe; Strain and Foot Valves; Engine and Boiler Combined; Steam Pump and Boiler Combined; Ship Pumps; Revolving Sprinkler and Stand; Steam Plunger Pumps and Vertical Steam Pump. div 7 and 8, sec K, L and M

211. Bowen Bros. Bowens' Yeast Powder. div 4, sec W

212. Potrero German Compressed Yeast Co.: Compressed Yeast. div 4, sec K

213. Grave, B. & Co.: Carriages, Buggies and Carriage Material. div 2, sec T

214. Low & Chartrey: Steam Washing Machine. div 7, sec P

215. Fairbanks & Hutchinson: Type Writers. div 2, gal

216. Pacific Spring Mattress Manufacturing Co.: Mattress Ticking, Hair Springs, Hair Mattress, Wool Pillows, Bolsters, Improved Crandall Spring Beds, Crib, etc. div 4, gal

217. Foster, S. & Co.: Diamond Creamery Butter, in cans; Condensed Eggs; Roches' Patent Safety Roller Chafe Irons. div 5, sec V

218. James & Pariser: Mince-meat; Fruit Butters. div 5, sec V

219. Osborn & Alexander: Barnes' Foot-power Machinery; Stanley Rule, Levels and Edge Tools. div 6, sec J

Barnes' foot-power machinery comprises 13

different machines for carpenters, cabinet makers, wagon makers, jewelers, dentists and farmers, consisting of scroll saws, combined scroll and circular saws, turning lathes, mortising machines, hand-power circular ripping saws and shapers. Send for 64-page catalogue. Mechanics' tools of the latest improvement and best quality a specialty. Amateur scroll sawyers' supplies, fancy woods, etc. Send for catalogue. Osborn & Alexander, 628 Market street, opposite Palace hotel, San Francisco.

221. Ridley, A. E. & Co.: Stencil Plate Impressions. div 1, gal

222. Brehm, R. W.: Cal. Wood Articles and Turning Tools. div 5, sec U

223. Harris, Jas.: Patent Tubular and Angle Iron Harrows; Spring Balance Gang Plow; Seed Sower, div 7, sec Z

224. Larkins & Co.: Carriages, Buggies, Rockaways and Phaetons. div 1 and 2, sec O and P

225. Frank Bros.: Harvesters, Reapers, Plows, Mowers, Steel Garden Tools, and other Agricultural Implements. div 2, 3 and 4, sec Y and Z

227. Hansen, August: Sofa Beds. div 4, gal

228. Butts, William: Challenge Fruit, Vegetable and Hop Drier; Dried Fruit and Vegetables; Model of Canning Apparatus. div 7, sec G

This Challenge Drier will, by means of dry air alone, produce in the most favorable condition for market fruits, vegetables, raisins, corn, fish, onions, loaf sugar, etc. In addition, it will prepare dried popped beans which are, with the above, suitable for long voyages and expeditions. The *Jeannette* took a supply of these beans on their voyage to the North pole. By a patented arrangement of the Drier, it is made suitable for all drying and heating purposes. Repository, southeast corner Mission and Spear streets. Wm. Butts, Patentee.

229. Knight, Geo. H.: Portraits (Crayon and Water-color Enlargements). md rm art gal

The artist here exhibits a fine collection of photographic enlargements, making a specialty of landscape back-grounds. He is also in the advance in taking portraits on the European club system, making the terms of payment quite easy. Further information can be obtained from circulars in room 2 of the art gallery. Studio in St. Ann's building, corner of Eddy and Powell St.

230. Nye, Albert G.: Oil Paintings, Water Colors, Sea Mosses, Wax Work, Baskets, Frames, Spirals, etc. md rm art gal

231. Knapp, H. G.: R. J. Knapp's Patent Side-hill Plow. div 5, sec Z

232. Tyler, Mrs. M. A.: Worsted Pictures. md rm art gal

233. Brosse, Madam: Notions for Ladies' Use. div 1, gal

234. Brizee, J.: Window Screens, "Perfection." div 2, sec D

235. Wakeling, L. T.: Wakeling's Magnetic Oil and Blood Purifier. div 3, gal

236. Hatch, John: Minerals, Mineral Jewelry, Ornaments, etc. div 2, gal

237. Hartshorn & McPhun: Window Shades, Opaque Shade Cloth. div 4, gal

238. Palmer, H. (agent): Cal. Port Wine. div 4, sec K

239. Hawley, M. C., & Co.: Cider Presses, Steam Engines (straw-burning), Cultivators, Seed Drills, Horse Rakes, Heading Machines, Coffee Mills, Lawn Mowers, Grist Mills, Gang Plows, and Buckeye Harvesters. div 4, 5, 6 and 7, sec Y and Z

240. Tristram, Samuel: 50 Mesh Brass-wire Cloth; 30 Mesh Brass-wire Cloth. div 3, sec D

241. Cousins, Mrs. Jacob: Floor Rag Mats. div 1, gal

242. Sweetzer & De Long: Display of Cal. Vinegar and Cider, manufactured in Marin county, on Sweetzer & De Long's Ranch. div 2, sec N

244. Carville Manufacturing Co.: Coupe Rockaway, Road Buggies, Rockaways, etc.; Surreys, etc. div 1 and 2, sec Q

246. Montague, W. W. & Co.: Marbleized Iron Mantels, Grates, Ranges, Cook Stoves, etc. div 1 and 2, sec F G H

247. Willard, Miss Nellie: Crayon Pictures. md rm, art gal

248. Goodrich, Taylor: Stoves, Ranges, etc. div 2, sec K

249. Figer Bros.: Figer Bros.' Patent Carpet Sweeper, Brushes and Dusters. div 4, sec R

251. White, Jas. T. & Co. (agents): Revolving Book Case; Webster's Unabridged Dictionary; The American Cyclopedia; Reference Library. div 5, sec S

252. Isaacs, Mrs. W. B.: Marriage Certificate over 100 years old. md rm art gal

253. Ryder, Miss Emily S.: Decorated Pottery and Porcelain. md rm art gal

254. Coleman, Wm. T. & Co.: Soap; Candles; Salmon; Royal Baking Powder; Smith's Borax; Salvator Lager Beer; Canned Corn. div 5, sec U

The above is a most complete exhibit of its kind. The soap of the Bay Soap Company are noted for their excellence, while the candles after repeated tests, especially those for miners' use, have been pronounced the finest in the market, on account of the brilliancy of their light, steadiness of their flame, and their non-smoketive qualities. The same house are also agents for Baker's Chocolate, Salvator Lager Beer, Royal Baking Powders, and many other articles, all of which have a high reputation.

255. Seattle Coal and Transportation Co.: Seattle Coal. div 1, sec D

256. Dunham, Carrigan & Co.: Tire Benders; Retorts; Water Gates; Pipe and Boiler Tubes; Bronze-plated Iron; Iron Pump Column, all sizes. div 6, sec X

257. Noble, Mrs. L. P.: Crochet Bedspread. div 1, gal

258. Willets, W. P.: Hair Wreaths. md rm art gal

259, Albaugh, M. E. & Co.: Open Buggy; 3 Topped Buggies. div 1, sec Z

260. Ridgeway & Co.: Spring Bed; Hair Bed; Lounge Frames; Lounges. div 5, gal

261. Simons, John P.: Elastic Gun Wiper; Extension Wiping Rod; Rotary Steam Engine. div 7, sec A

262. Schroder, Miss Jodoca: Worsted Flowers. md rm art gal

263. Clarrage, E. D.: Bobin Winder, Standard Screw Machine; McKay Sewing Machine; Buzzles Sand-papering Machine; Tapleyo Heel Burnishing Machine. div 4, gal.

264. Elliott, William G.: Coal Cart. div 2, sec Z

266. Robinson, Mrs. S. E.: Natural Flowers; Needle Work, art gal

267. Stettin, Mrs. H.: Chenille, Silk and Linen Embroidery; Stamping Goods. div 1, gal

268. Smith, Chas. E.: Sea Mosses; Skeleton Leaves. div 1, gal

269. Morse, S. T.: Centennial Cement.

The Centennial Cement will answer for all kinds of mending, and requires but a minute to apply it and properly finish up the work. The price is but 25 cents per bottle, with a reduction at wholesale. Its effects are lasting. It is used for patching boots and shoes. Mending may be done or the material purchased at the stand, 412 Washington St.

270. Morris & Son: Pneumatic Annunciators Steamboat and Hour Bells; Adjustable Door Nobs; Bronze Hardware (home made). div 5, sec R

271. Grimm, Miss Annie: Silk Quilt. div 1, gal

272. Poulter, Miss Ruth N.: Embroidered Cushions and Perfumery Bottles; Decorated Horns, Card Cases. md rm art gal

274. Schultz & Fisher: Silverware. div 4, sec N

275. Berkowitz, Miss Theresa: Fascinators, Handkerchief Boxes, Pillow Shams, Worsted Motto and Work. div 1, gal

277. Juillerat, A. E.: Musical Boxes; Passe Partouts. div 2, gal

278. Grand Arcade Bazaar: Fancy Work.

279. Dayton, Miss Ida: Case Painting on Satin; Colored Photographs; Small Portraits; Crayon Portrait. md rm art gal

280. Tucker, W. J.: Gas Valve; Jeffer's Catarrh Cure. div 3, gal

281. Meagher, Wm. F.: Ladies' Shoes. div 4, sec M

282. Kelley, P.: Boots and Shoes in cases. div 4, sec M

283. Smythe, W. H.: Tree-Feller and Log Saw. div 7, sec S

284. Adams, A. P.: Compressed Coffee. div 4, sec L

285. Dewey & Co.: The printing and publishing establishment of the MECHANICS' FAIR DAILY.

This newspaper is issued every evening at 7½ o'clock, and a large edition circulated free during each evening of the Fair. Size of single sheet 23x32 inches. Double sheet 32x46. The quality of paper used is first-class. The ink, supplied by Chas. Eneu Johnson & Co., of Philadelphia, is of uniform and superior quality. The publishers aim to give concise descriptions of the most important inventions and articles on exhibition, penned by able writers and reporters. Also brief items of the latest news, humorous paragraphs, incidents of the Fair, programme of music for each day and evening, and all official announcements of the managers of the Fair.

Bound volumes of the MINING AND SCIENTIFIC PRESS, the first number of which was issued in May, 1860, and commenced its 39th volume on the first of July, 1879. In its first number it devoted its energies to the encouragement of the mining and industrial interests of this coast, and nineteen years and 39 volumes have been devoted to the faithful carrying out of the principles advocated in the beginning.

Bound volumes of the PACIFIC RURAL PRESS—established in 1871 by Dewey & Co., present publishers. It is a 16-page journal handsomely illustrated with ornamental cuts and engravings showing the latest improvements in mechanical devices pertaining to agriculture, the best attainments of the stock grower toward animal perfection, the newest fruits, vegetables and flowers, together with rural architecture, landscape gardening and the like. Upon all crops, and the best ways of growing them, and the best means of destroying the enemies which attack them, the PACIFIC RURAL PRESS is replete with fresh and trustworthy information. Its commercial department is edited with especial care. In the departments of the home, its interests and economies, the RURAL is welcomed by the family as a faithful friend and wise counsellor. Its circulation on the Pacific coast is larger than that of all other agricultural journals combined. div 5, sec Q

286. Jones, William: Flooring, Hearth and Art Tiles.

287. Van Winkle, I. S., & Co.,: Cast Steel, Norway Iron, Axles, Anvils, Vises, Tire Upsetters, Tueires Irons, Cones, Springs, Swedge Blocks, Bellows, Horse Shoes, etc. div 5, sec T and U

288. Konike, A. & Co.: English Bycicle. div 1, sec L

289. Hawks, Miss Fannie: Fret or Sc Work. div 1,

290. Marshall, Jr., S.: Life-Saving Respira-l tor. div 8, sec V

291. Reimers, A: One Frame of Ancient Coins. art gal

292. Tressler, J. L.: Tressler's Pat Grate. div 3, sec D

293. Scott, Dr. A. G.: Russian Silver Polish. div 6, sec R

295. Dodge, L. C.: Pearl Renovator. div 6, sec P

297. Butler, Mrs. T. B.: Mathematical Delineator; Dress Patterns. div 4, gal

298. Woodard, M. W.: "Adams' Chart of the World's History," and case. rm 3, art gal

The above represents a grand historical panorama, all in bright colors and elegantly mounted on canvass 22 feet long, and two feet four inches wide, with rollers and cranks, containing complete outlines of all the Nations embraced in history, from Adam and Eve in the Garden to the present; the rise and fall of empires, illustrious personages, events, eras, and every King known to history; all arranged in their exact order along a central stream of time. Shows the changes in all ages, and what was going on at any time the world over. Address, 952 Broadway, Oakland, Cal.

299. Edward Blakeley: Flour Fertilizer. div 6, sec R

300. Rudolf Gangloff: Four Diaphram Gas Meter. div 6, sec R

303. Hermann, Theodore & Co.: Cabinet and Ornamental Shells and Indian Curios. div 2, gal

304. Kitzmuller, M.: three Extension Buggies, two Physician's Phaetons, Top Buggy, Rockaway. div 1 and 2, sec Q

305. Black, H. M. & Co.: Carriages. div 1 and 2, sec R and S

306. Bilz, J. W.: Carriage. div 1, sec V

307. Anderson, A.: Carriages. div 1, sec X

308. Columbus Carriage Co.: Buggies and Carriages. div 1, sec B

309. Hawley, D. N. (agent): Counter, Platform and other Scales. div 2 and 3, sec X

310. Sheldon, Mark: Davis' Vertical Feed Sewing Machine. div 3, gal

311. Moses, Walter W.: Music Leaf Turner. div 2, gal

312. Hardy, Nathan I.: Music Cabinets and Washing Machine. div 3, gal

313. McInnes, J.: Kitchen Dresser, Fly Screen and Kitchen Table. div 3, sec U

314. Turner, R.: Turner's Liver Regulator. div 3, sec T

315. Naber, Alfs & Brune.: Bourbon Whiskies. div 3, sec L

317. Giant Powder Co.: Giant Powder. div 4, sec H

318. Krueger, J. H.: Canes. div 4, sec P

319. Will & Fink: California-manufactured Table Cutlery and Carvers, Razors and Dressing Combs. div 4, sec P

320. Hamman Baths: Advertising Temple. div 4, sec P

321. Myers, A.: Koumiss. div 4, sec P and Q

322. Weister & Co.: Coal Oil Stoves and other Household Utensils. div 4, sec R

323, Thompson, Geo. S..: Soda Fountains. div 4, sec R

324. Faulkner, Geo. L.: Patent Swinging Carriage. div 3, sec T

326. Sanborn, Vail & Co.: Pictures, Mirrors, Music Stands, Easels, and Velvet Frames. div 2, gal

327. Pelton, J. C.: Chair-leg Cushion. div 3, gal

328. Hayward, Mrs. L. H.: Needle-work Skirt. div 1, gal

330. Jackson, Byron: Horse Forks for stacking hay. div 4, sec W

331. Holbrook, Merrill & Stetson: Spiral Galvanized Iron Pipe, div 2, sec J

332. Cutting Packing Co.: Canned Fruits, Vegetables and Salmon. div 4, sec F

333. Robbins, F. A.: Canners' and Soap makers' Presses; Jewelers' Rolls. div 7, sec U

335. Begg, J.: Collection of Native Grasses of California, and Wild Oats, and other grain of the Pacific Coast. div 7 and 8, sec C

336. Pacific Rolling Mills: Round and Square Bar Iron; Railroad Iron—rolled and wrought—of every description; nuts and bolts. div 4 and 5, sec X

337. Tempeste, E.: Marble Clock. md rm art gal

338. Curtaz, B.: Organ; Pianos. div 3, gal

339. Averill Paint Co.: Mixed Paints of every description. div 6, sec P

341. Selby Smelting and Lead Co.: Lead Pipe of all sizes; Shot. div 5, sec F

342. Pioneer White Lead Works: Dry Lead in pails and kegs; Lead ground in oil, in kegs and tin. div 5, sec G

343. S. F. and Pacific Glass Works: California-manufactured Bottles, Demijohns and Cases. div 5, sec I

344. Bleasdale, John I. (D. D., F. G. S.): A Choice Collection of rare and beautiful Stones and Mineral Specimens. div 5, sec K

345. Lawrence, W. H.: Octagon Case, containing Photographic Views; Eight Frames of Photographic Views. no rm art gal

346. Smith, F. A.: Two Paper Pictures (cut with knife). md rm art gal

347. Heuter Bros.: Gums and Varnishes. div 5, sec O

348. Wagner & Todt: Brewers' Cask. md passage

349. Samisch, Robt.: Porcelain Painting. div 4, sec P and Q

350. Hill, Samuel: Oil Stoves. div 6, sec J

351. Hinz, Carl: Window-blind Wiring Machine. div 6, sec J

352. Hubbard, J. B., Sons & Co.: Oil Lamps and Stoves; Iron-stone Tableware.

353. Drew, H. C.: Carriage Jack. div 6, sec J

354. Burr, C. H. and G. W.: Weather Strips; Fly Screens; Slop Hopper and Stench Trap. div 6, sec M

356. Vulcan Powder Co.: Vulcan Powder Thawing Box. div 6, sec R

357. Blakeley, Edward: Blakeley's Compound Flower Fertilizer. div 6, sec Q

359. Dixon & Bernstein: Show Cases of various patterns. div 3, gal

360. Haggerty, Thomas: Eureka Pleating Machine.

361. Ford, Mrs. E. W.: One Patchwork Reception Chair. md rm arm gal

362. Tatum & Bowen: R. Hoe & Co.'s Presses, Ball Patent Valve Engine (reversible or with governor), Lath Machine, Top and Bottom Saw Guides, Type Cases, etc. div 7, sec J

363. Sanders & Co.: Copper Distiller's Tanks. Coppersmith's Distilling Apparatus.

364. Dodge & Pierce: Printing Presses, Cards and Stationery. div 5, sec S

365. Cornish, Edward: Clothes Drier.

366. Slocomb, Mrs.: One Patchwork Quilt. div 1, gal

367. Hœfer, John P.: Side Saddle. div 2, sec Q

369. Young, Thomas: Wax Flower of Victoria Regia. div 5, sec E

370. Spence, A. S. & Co.: Mackinnon Pen; Patent Automatic Cow-milker; Perpetual Lamp-wick.

The above mentioned parties exhibit this patent Mackinnon pen, as the only conical shaped fountain pen made, having a solid iridium point, its intricate mechanism can be examined at the stand. The Patent Automatic Cow-milker is guaranteed by them to work perfectly. By examination of the Perpetual Lamp-wick, it can be seen that it will last forever, and is warranted to do so by them. Their exhibit here shows merely a sample of the thousand and one handy and useful articles kept by them at their place of business, No. 24 Geary street.

371. Detrick, E., & Co.: Bags and Twine, Tents and Awnings, Netting, Hammocks, Camp Cots, Tables and Chairs, Water Proof Covers, Hydraulic and Fire Hose. div 5, gal

372. Strahle, J., & Co.: Pool and Billiard Tables of various patterns; Office, Saloon, and Billiard Hall Supplies; Fancy Wood Boxes. div 5, gal

373. Shearer, Geo. D.: Schooley's Automatic All Iron Gas Regulator. div 5, gal

374. Neville & Co.: Bags of all descriptions, Tents, Awnings, Camp Equipments, Oil Clothing, Hydraulic and Fire Hose, Ducks of all kinds, Twines, Hammocks, Netting, Stamps and Brands for Flour Bags, Patent *Satchel-Bottom* Paper Bags, and Awning and Tent Stripe. div 5 gal

375. Jewell, Mrs. Hannah: Specimens of Kensington Embroidery—13 pieces. div 1, gal

376. Loring, Lucia E.: Perfumery Cases and Satin, Painted and Decorated. md rm art gal

377. Wassiamull & Assomull: Cashmere Works; Sindh Works; Silk Works; Delhi Works; Wood Works; Sandal Wood Works; Engraved Works and Indian and Bengal Hot Chutneys. div 2, gal

378. Kast & Co.: Gents and Ladies' Shoes, and Shoe Stock; Last Manufactury; Practical Shoe Manufacturers. div 3, gal

379. Paillard, M. J. & Co.: Music Boxes. div 4, gal

380. Craven Sisters: Fashions. div 5, gal

381. Balny, A. J.: Ostrich Feathers. div 5, gal

382. Cowles, Mrs.: Millinery. div 5, gal

383. Danicheff Glove Factory: Kid and other Gloves. div 5, gal

384. Heinze, L.: Glass Blowing. div 5, gal

385. California Furniture Co.: Parlor, Dining Room, Kitchen, Office, Lodge and School Furniture; Cornice Lambrequins, and a great variety of samples made by them. div 2, gal

This exhibit gives some idea of the goods manufactured by this firm. They have displayed their wares annually since the Mechanics' Fairs were first inaugurated; their designs are always the most modern and their material the best. Their warerooms are at Nos. 220 to 226 Bush street, San Francisco.

386. Edwards, Frank G.: Body Brussels, Wilton Tapestry and Ingrain Carpets; Silk, Satin and Plush Curtain Goods; Wall Paper of every style. div 2, gal

387. Coultor, Robert, Agent: Rattan Furniture and Baskets; Kurrachee Rugs; Brussels Rugs, Mats, etc. div 2, gal

388. West Coast Furniture Co.: Parlor, Dining Room, Kitchen, Hotel, Office and other Furniture; Onyx Center-Tables, Secretaries, Music Stands, etc. div 2 and 4, gal

389. Chronicle, S. F.: Stereotype Plates and Moulds of Chronicle. div 1, gal

390. Linard, B. R.: Lithographic Designs and Specimens. div 1, gal

391. Lydon, Daniel: Signs. div 1, gal

392. Lucas, Madam Gettz: Preserved Flowers, Grain and Grasses. div 1, gal

393. Doyle & Co.: Fans. div 1, gal

394. Eaton, Chas. S., Agent: Hazleton Pianos; Hale Grand Square and Upright Pianos. div 4, gal

395. Lindenborn, Charles: Chromos. div 4, gal

396. Gilbert & Moore : Office and School Furniture. div 4, gal

397. Belding Bros., Agts.: Belding Bros.' Machine Twist and Sewing Silk. div 3, gal

398. Smith, James, Agt.: Bradbury Pianos, Smith's American Organs, Music Stools, Sheet Music. div 3, gal

399. Indianapolis Chair Manufacturing Co.: Solid Walnut Furniture, and Chairs of every description. div 4, gal

400. Porter, Oppenheimer, Slessinger & Co.: Boots and Shoes, Calf Skin, French Kid. div 4, gal

401. Clark, Geo. W. & Co.: Wall Paper and Trimmings, Window Shades. div 5, sec A gal

402. Norton Single Propeller Pump Co.: Norton Single Propeller Pump. div 5, sec Y

403. Levake & Grubb : New Era Water Closet. div 7, sec S
div 7, sec T

405. Hendry & Lennon : Iron Wheelbarrows and Wheels, The First Piece of Casting Made in the Territory of California. div 7, sec Z

406. Townsend, W. S.: Fancy French Candy, Plain Candy and Preserved Fruits ; Candy Manufacturing Machinery, and Confections in Course of Preparation. div 5, sec P and Q

407. Parke & Lacy: Brown's Caloric Engine, Heald, Cisco & Co.'s Centrifugal Pumps, Walker's Patent Compound Steam Pump. div 8, sec O

408. Fish, A. L., & Co.: Quartz Mill. div 8, sec P

409. Howland, W. H.: Howland's Undercurrent Mill and Sluice Riffle. div 8, sec S

410. Schmidt, M. & Co.: Box Brand and Printing Machine, Box Brands and Printing. div 7, sec S

411. Robertson : Cupel Furnace and Assayers' Outfit, illustrating a process for treating rebellious ore. div 7, sec T

412. Wenzel, G. L : Wine and Cider Presses. div 7, sec T

Mr. Wenzel's cider presses are of entirely new design, built so as to utilize great power in a small space with very little force. In the small press the screw comes up from the bottom, the nut being worked by a ratchet which, when moved backward and forward, makes the nut work on the flange which presses the top of the frame upon the grapes, and thus pressing the top and bottom together gives twice the power obtained by any other press. They are simple in construction, and not liable to get out of order. Can be seen at 309 Fulton street, or at the pavilion.

413. Huntington, Hopkins & Co.: Otis' Steel Fire Box and Boiler Plate. div 8, sec U

414. Prescott, Scott & Co.: Vertical, Horizontal, Compound and Marine Engines, Direct Acting Hoisting and Pumping Machinery, Quartz Mills, Steam Pumps, etc. div 7, sec V

Prominent among the articles in this exhibit is Bruckner's Quartz Mill, which has been successfully introduced in some of the principal metallurgical works of Europe, and is equally well adapted for wet or dry crushing. Works without loss from dust or dry crushing, and requires but very little water in wet crushing. In comparison with stamp mills, it does the same work with less power and less men. Its weight is less, and there are no extra expenses for putting up. Manufactured in different sizes. Smallest size, $250; capacity, two tons in 24 hours. Largest size, $2,000; capacity, 20 tons in 24 hours. Best of testimonials. Mr. Bruckner can be seen at room 16, No. 328 Montgomery street.

415. Gordon, James E.: Pacific Chain Works; Chain and Tools. div 7, sec T

416. Campbell, W. H.: Handasydes' Composition for the Removal and Prevention of Incrustation on Steam Boilers. div 7, sec R

417. Holder, B. J.: Model of Yacht. md rm art gal

418. Cotter, Mrs.: Vase Wax Flowers. div 5, sec E

419. Scollay, W. A.: Pencil Clasps (the only). div 5, gal

This is a very ingenious and useful invention, combining the best qualities of other holders, and in addition, can also be instantly attached or detached from the coat or vest without injuring the cloth. The pencil can never drop out; the point is preserved ; the holder will fit all sizes and lengths. For sale at the stand in the pavilion, or at 1522 Stockton street. Price, 10 cents.

420. Geo. Vincent Flexible Car Truck Co.: Model of Six-Wheel Steam Car Truck, Model of Four-Wheel Horse Car Truck, Mechanical Drawings. div 5, gal

These entries illustrate practically the results of a series of very important experiments, which have produced an apparatus long needed upon railways. This invention, as shown by the two modifications, is intended to be used upon steam railways, and also upon horse-cars. By its use the wheels are adjusted with relation to each other, so that the car will easily pass curves, and the degree of the curve adjusts the wheels so as to precisely fit it. The self-acting mechanism by which they accommodate themselves to the varying curvatives of the road, consists in a novel method of hanging the boxes in which the journals of the axles are supported, and in a means of connecting the leading and trailing wheels of the truck so that they will conform to the curvature of the road, and act upon each other independently of the central pair of wheels. But at the same time, in combination with the truck frame, central pair of wheels, and the rail, they form a perfect acting Fexible Truck.

421. Loomis, George : Jewelry, Plated Ware, Fancy Notions. div 3, gal

422. Roger, Meyer & Co.: California Spool Silk. div 3, gal

This exhibit touches our local pride, for the California Silk Manufacturing Co., of which R. R. Yates is the agent, has established its business upon a paying basis, and furnishes goods that will compete with those of the East. An infinite variety of shades is supplied, and an examination of its beautiful and very valuable exhibit in the pavilion will better illustrate its work than a long article. The silk is of the strongest quality and permanent colors. The labor is skilled and all white, principally girls who have been especially trained for the business.

423. Archer, James: Invalid Bed. div 3, gal

424. Sherman, Hyde & Co.: Pianos, Organs, Music Stands. div 4, gal

425. McGrath, E.: Marble Mantels (mixed marble), Inlaid Marble Table. md rm art gal

426. Sanderson & Horn: Honradze and Horse-shoe Tag Cigars, etc. div 3, gal

Factory No. 28 is a branch of main factory, Nos. 327 and 329 Front street, corner Clay, San Francisco. Among their special brands are the Honradez and Horse Shoe Tag cigars, the latter brand alone giving employment to over eighty white men, boys and girls.

427. McKibbin & Pettison: Iron Wheelbarrows. 3 Y

These wheelbarrows are very superior in their construction, being made of No. 12 iron, one-eighth of an inch thick, and made on an iron block, while the ordinary patterns are only of No. 16 iron. This firm manufactures railing, stairs, vaults, doors, locks, beams, lintels, bolts, anchors, bedsteads, safes and all kinds of house-work, besides a great variety of other wrought iron work of the best quality and improved patterns. The Eureka Iron Works, Nos. 317 and 319 Howard street, between Front and Beale, are very complete in equipments, and work is turned out promptly on orders.

428. Land Department of the Oregon and California R. R. Co. Products of Oregon, Minerals and other specimens, Soils, etc.: div 6, sec D, E and F

Sheaf, Wheat and Grass; Wheat, Rye, Oats, Barley, in Glass; Grass Seed, in Glass; Various kinds of Woods polished and rough; Canned Salmon; Pruning Shears; Hops; Stone; Ores; Pig Iron; Mineral Waters; A variety of samples of Flour, Coal, Salmon Oil; Samples of Soil taken from various parts of the State, etc.

Granite, Porcelain, Clay, Sandstone, Cinnabar, and Iron; Garnets; Dried Fruits: Apples, Peaches, Pears and Prunes.

Maple, Vine Maple, Myrtle, Ash, Spruce, Laurel, Cedar, Alder, Oak, Fir, Wavy Maple, Hickory, Burl Maple, White Ash, Yellow Ash, Polished Wood; Canned Salmon; Salmon Canned, cooked whole.

Oregon White Sides Oats; White Australian Wheat; Oregon Wheat; Rye, Big Club, Oats, and Native Oats; White Winter, Mediterranean; Amber and Chile Club Wheat, in stalk; Bearded Barley; Four Rowed Barley; Surprise Oats; Crooked Stem Wheat, in stalk; White Australian, Sonora, Mediterranean, Little Club, Chili Club and Golden Amber Wheat, in seed.

D. M. Giery: Coos Bay Coal and Mineral Waters from Aurora; Soda Water from Wihoit's Springs.

McLaren Mills: Wheat, Rye, Buckwheat Flour, Oat meal, Hominy, Graham, Corn meal, Cracked Wheat; Red Star Brand Flour; Extra white Wheat.

W. G. and H. Wilkins: English Blue Grass; Timothy; Mesquit; Little white Oats; Barley; White Winter Wheat; Midge Row Spring Wheat; Large Club Wheat, and Odessa Wheat; Oregon Oats; Oregon Barley.

T. G. McLench: Probster's Barley; Side Oats; White Winter Barley; Hopeton Oats; Surprise Oats.

Oregon Iron Co.: Pig and Bar Iron.

Astoria Oil Co.: Oregon Fish Oils.

Gambrinus' Beer Co.: Export Tafel Beer.

Kinney & Co.: Canned Salmon; Beef, Tongues, etc.

Jacob Brothers: Samples of Woolen Cloths.

Mr. Belshaw: Samples of Orchard Grass; English Rye; Timothy; Ten Headed Red Chaff Wheat, in head and sheaf; Oregon Huge Mammoth; Oregon White Winter; Oregon Mammoth Winter White Chaff; Chile Club Spring; Chile White Velvet; Chile Clawsons Winter; Wheat in glass jars of the following varieties: White Velvet, Sonora, Little Club, White Chile; and samples of Soil.

K. L. Hubbard: A large collection of grasses; Canned Salmon; Hops; Fish Guano; Cotswold; Wool, in cases; Mohair, in cases.

D. D. Prettyman: Flax, Pea vine, Wild Pea vine, and Grasses; Native Blue Grass; Timothy; Mesquit, Alfilerilla, Mint, and Velvet Grass.

D. K. Hodges: Oregon native Grasses, in the stalk.

429. S. F. Journal of Commerce (W. H Murray, business manager): California and Pacific Coast Products. div 5, sec E and F

Sol Runyon: White Winter Pearmain Apples; Bellefleur (yellow) Swaar, Fall Pippins; R. I. Greening, Canada Russet; Brother Jonathan Spitzenberg, Pawls, Jeanette, Wine Sap, Wagner, Strawberry, and Crab Apples. Pears.—Sickle, Winter Nellis, Bartlett, Vicar of Wakefield, Duchesse d'Angouleime. Peaches.—Late Crawford, Runyon's Seedling Clings, Smock's Late Freestone, Orange Cling. Plums.—Grass Prune, Deagen, Duane Purple Ickworth Plum, Quackenboss Plum, Fellenberg Prunes, German Prunes, Bradshaw Prunes, Hungarian Prunes, and Coe's Golden Drop Plum. Gourds and Lemons.

George C. Swan: Swan's Sweet-Rind Olive Lemon.

R. R. Morrison: Anona or Custard Apple, Orange Tree Branch, Grapes, Preserved Olives, San Diego Olive Branch with Fruit.

Dr. J. Strentzel: Alexander Apples, Shaddock Orange Tree and Fruit.

Sol Wangenheim & Co.: Samples of Vege-

tables, and Mixed Pickles in Glass Jars.

Zvictich, Garrone & Co.: Australian Lemon and Oranges, Hungarian Prunes (one box).

Spear & Mead: California Lemons, and Oranges, and Beeswax.

R. B. Blowers: Walnut Branches with Fruit, Samples of Red and White Egyptian Corn, full variety of Grapes.

Buhr & Brandy: White Watermelon.

Colombo Market: Red Cabbage, White Cabbage, Curl Leaf Cabbage, Turnips, Artichokes, Tomatoes, Radishes, Cauliflower, Parsnips, Carrots, Green Pepper, Beets, Mint, Lettuce, Celery.

Gale & Co.: White Watermelons.

L. G. Sresovich & Co.: Fruits, Foreign and Domestic—Bananas, Pineapples, Cocoanuts, and a great variety of Apples and Pears.

A. Cleveland: Striped Watermelon, Giant Pop Corn in Ear.

San Jose Canning and Packing Co.: Preserved Fruit in Jars.

Thomas Young: Wax Flower, Victoria Regia.

Mrs. Jane E. Cotter: Wax Fruit, Case of Wax Flowers.

J. Chadbourne & Co.: Lane's Flour.

By the College of Agriculture, State University of California: Samples Grown on Experimental Ground. Valuable Trees. — Cinchona Calisaya, Pinckneya, or Georgia Fever Tree, Carob, or St. John's Bread, Coffee; Tamarind, Cork Oak, Pride of India, Jarrah or *Eucalyptus marginata*. Oil Plants. — Flax, Hemp, Bene, or Sesame. Forage Plants.—Golden Millet (*Setaria Italica*), Pearl Millet (*Penicillaria Spicata*), Angola Panic (*Panicum Spectabile*), Amber Cane (*Sorghum Saccharatum*), Egyptian Corn (*Sorghum Ceruum*). Italian Rye-Grass; Orchard, or Cock's-foot Grass, Velvet Grass, Wild Canary Grass, Tall Oak Grass. Bokhara Clover, Alfalfa, Sainfoin, Black Medick, Serradilla. Wheat.—Jonquil, Club, Early Spring, Mammoth, Odessa Rust-Proof, Polish or Italian Macaroni, Black-Bearded Macaroni, Common with broadcast culture, Common with drill culture. Barleys.—Common Six-rowed, Chevalier, Carter's Prolific, Scotch Two-rowed, Black Two-rowed, Smooth Bluish, Smooth Arabian or Bald. Oats.—Bald. Buckwheat.—Chinese variety. Rice. —Japanese Upland. Soils.—About 20 typical specimens from different parts of the State.

Madam Anna Gettz Lucas: Bouquet Samples of all varieties, Grain in Glass Vases, and Wax Pears.

William Buck: Bald Barley, grown in San Benito Co.

R. J. Trumbull & Co.: Varieties of Flour, Grain and Vegetable Seeds in Glass Jars.

J. M. Hutchings: Forest Tree Seeds, and California Marble.

S. F. Merchants Exchange: Samples of all grades of cotton.

G. W. Colby: Sheaf of Propo wheat; also sample of the grain.

Mission Rock Grain and Warehouse: Jar of graded wheat.

Ernest H. Frick: Sheaf of Chevalier Barley; samples of seed.

A. Crawford: Samples of Raw Cotton from Pacific Islands.

Horace Davis & Co.: All kinds of Flour; Crushed and Hulled Wheat.

Gen. John Bidwell: Hops on the vine; Mulberry Tree (Downing's everbearing); Eranthus Ravenna; Broom Corn; Corn in Stalk; Fig with Fruit; Black and White Sage; Red Egyptian Corn; English Walnut Branch, with fruit; Cane Brake; White Egyptian Corn; Persimmon; Ramie Plant; Almonds and Branch; Pomegranate Branch and Fruit; Sweet Corn (Stowell's evergreen); New Zealand Flax; Magnolia acuminata; Ground Cherry Vine and Fruit; Physaliss Edulis, Rice, Pop-corn, Japanese Sugar-cane; Olive Branch with Fruit; Chinese Sugar-cane; Prickly Comfrey; Chestnut Tree with fruit.

J. N. Asher: Cavendish Banana Tree with fruit and blossom; St. Michael's Orange Tree with fruit; Bergamot, Mandarin and Mediterranean Orange Tree with fruit; Pritchardia Palm Treee; Strawberry Guava Tree; Seedling Acapulco Orange with fruit; Cherimoyer Tree; Varieties of Grapes.

Annie E. Burbeck: Fern Pictures;

G. P. Rixford: Japanese Persimmon Tree, Walnut Tree Branch, and Date Palm.

B. E. Van Straten: California Tobacco; Turkish, Virginia and Havana Plants.

Antone Mencke: Hops on the Vine.

Welch & Co.: Sugar Cane.

G. Hunziker: Sheaf of Hulled Oats, and sack of same.

West Coast Furniture Co.: Samples of all kinds of Pacific Coast Woods.

Carbon River Coal Co.: Tufacious Limestone, Coke, Bituminous Coal.

Chas. R. Allen: Chase River, Columbia, Seattle, Carmel, Coos Bay, Cumberland, Black Diamond, English, Scotch, Pittsburg, West Hartley, Sydney, Wellington, and Hale Coal.

Gen. H. M. Naglee: Naglee California Brandy.

Lachman & Co.: Mount Vineyard, Angelica, Port, Sweet Muscat, Sparkling, Catawba, Red Zinfindel, Madeira, Sparkling Muscat, Hock, and Reisling Wine.

H. Palmer: Frontignac, Hock, California Sherry, and Port Wine.

San Jose Angora Robe and Glove Co.: Angora Goat Wool and Leather Mats, Robes, and Coat-Buckskin Leather, and Morocco.

Falkner, Bell & Co.: Washed and Unwashed Wool, and Wool from California and Oregon.

Bay Sugar Refinery: Variety of Sugars and Syrups.

Cal. Sugar Refinery: Sugar—showing its various states of progress from raw to refined sugar

Samuel Weeks: California Oakum.

A. Mackay: Cocoanut Fiber Carpet.

H. C. Hudson: California Olive Oil.

George Mothersole: Model of a House.

Cal. Farmer's Museum: Sack Flour; New Zealand Hemp; California Slate Stone; Relics of Donner Lake Party; Piece of the Ship *Cadmus*, that brought La Fayette to America;

Walrus Tusk ; Cal. Onyx Marble ; First Broom Made in California, and First Flax Grown in California.

Cummings & Co.: Samples of Honey from Bakersfield, Cal.

E. Guittard & Co.: Raw Spices in Jars, Cocoa Beans, and Ginger.

John Reynolds: Salmon Berries Preserved.

Loughran, Reilly & Co.: Peach Blow Potatoes.

430. Miller, Louis : Chromatic Accordeon. div 1, gal

431. Andrews, G. S.: Spring Castor, with Automatic Brake, for Piano Stools. div 4, gal

432. Proll, Wm. & Co.: New Style Silver Show Cases. div 3, gal

433. McGuire, Arthur : Stair Railing Posts, etc. div 2, gal

434. Sayward, W. T.: Steam Tree-Feller. div 8, sec Z

435. Teubner & Hoffman : New Pattern Show Cases. div 3, gal

436. Kidd, Mrs. Alex : Thread Tidy. div 1, gal

437. Medina, F. P.: Two moss and shell pictures. md rm art gal

438. Daniels, John: Scotch Red Granite. div 2, sec D

439. McHenry, Georgie : Tahiti "Island Chief" Robe. div 1, gal

440. Woodward, R. B.: Tropical Flowering and Foliage Plants, Ferns in great variety. gar

441. Cooley, E. R.: Tule Lining. div 4, gal

442. McDougall, John : Guerrant's Electrical Engraving Machine. div 7, sec P

443. Campbell, W. H.: Bosisto's Oil of Eucalyptus, Pills, Syrups, Lozenges, Cigarettes, Ointments, Excelsior Water Motor, Nicotine Sheep Dip. div 7, sec P
div 7, sec K

445. Alexander, Mrs. E.: Worsted Bouquet. md rm art gal

446. Liddle & Kæding : Fire Arms, Fishing Tackle, and Sportsmen's Supplies. div 4, sec M

447. Hagans, G. W.: Sheet Music. sec M, gal

448. Gas Consumers' Association : Standard Automatic Gas Regulator. div 5, sec X

In reference to this exhibit it is said that the Gas Consumers' Association of San Francisco is daily demonstrating by direct and practical test, the truth of the following maxim : that any given amount of gas-light will cost from 25 to 50 per cent more under the ordinary pressure at which gas is burned, than the same amount of light, of a much superior quality will cost under the scientific pressure of the Standard Automatic Gas Regulator. The rental system adopted by this Association for the use of their regulator, has afforded the greatest satisfaction ; and proved best for the interest of gas consumers, under our reliable and continued responsibility for the perfect action of the instrument and future keeping of it in proper working condition. Office, 202 Bush street.

449. Brundage, J. P.: Seed Frame and Crayon. md rm art gal

450. Conley, M.: Connelly, Rogers & Co.'s Self-adjusting Safety Car Coupling. div 6, sec Q

451. Conly, M.: Car Coupling. div 5, sec Q

452. Foster, Mrs.: Paper Grate Veils. div 1, gal

453. Gabbs, Mrs. P. V.: Pen Drawing. md rm art gal

454. Kent, Geo. C., & Co. Japanese Handkerchiefs and Fans. div 1, gal

456. Gregory, H. P., & Co.: Silent Gas Machine. div 8 sec S

457. Wœrner, David : Beer Cask. md pass

This exhibit is one of the best ever made in the fairs of our State. This immense cask is 15 feet 6 inches by 12 feet 6 inches across the heads and 12 feet 4 inches long, and holds 11,000 gallons. It is made entirely of oak and finished off in the most workmanlike manner. At his factory, 104 Spear St., every style and size of cooperage can be furnished at short notice and from selected stock.

Wentworth, G. W.: Sample of Oats in Sheaf.

Light, Dr. W. W., contributor; Chas. Moore, grower : Large Watermelon. Weight, 79 lbs.

Crozier, J.: Box Egg Plants.

Bell, Chas. T.: Bark of Big Tree.

Sievers, John H.: Sweet Sicily Orange Tree, Banana Tree with Fruit, Cavendish variety with Fruit.

Ellis & Co.: Mountain Watermelon.

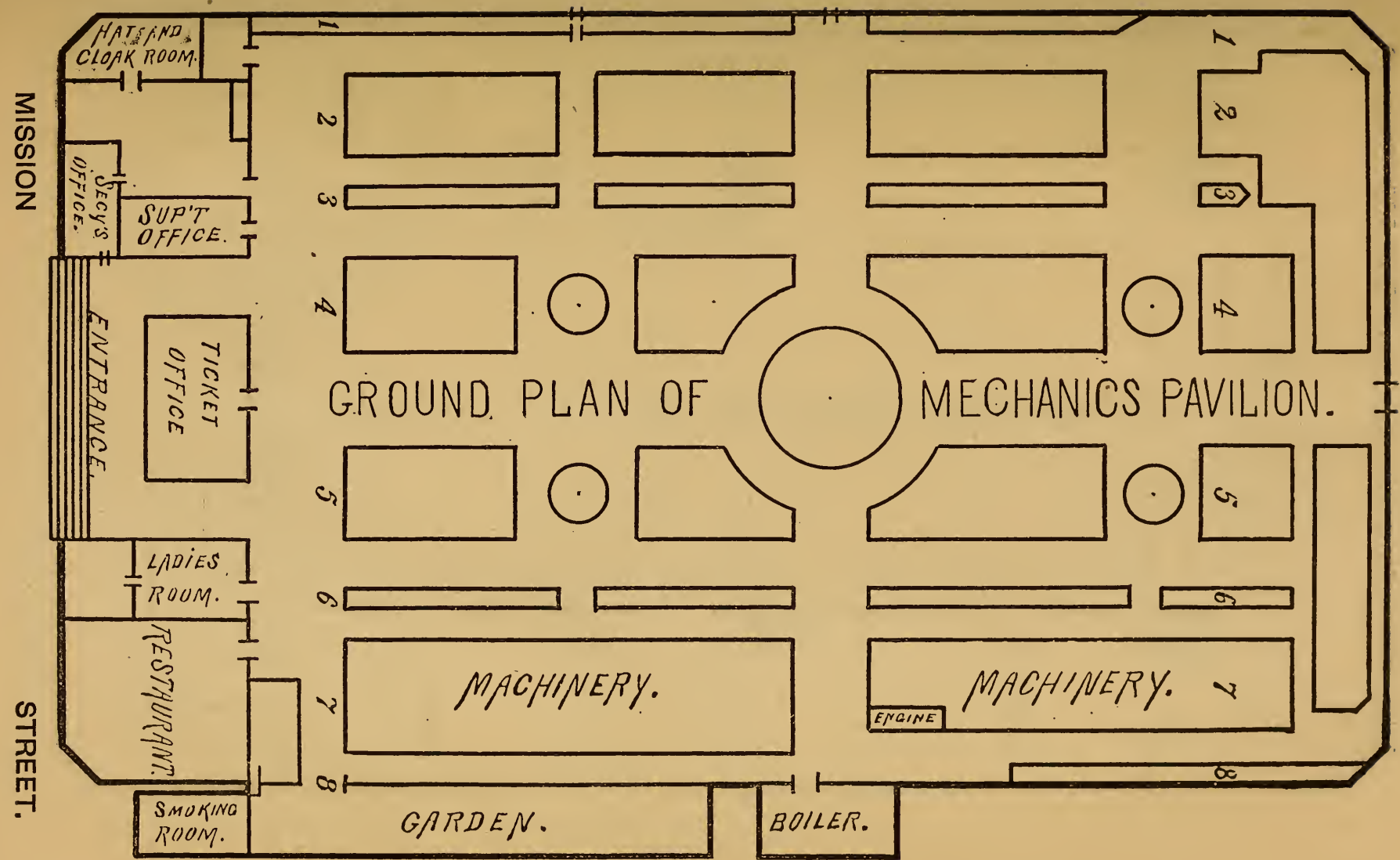
Golden Gate Park Commissioners : Leaf of the Victoria Regia.

Union Pacific Salt Works : Samples of all kinds of Salt in Glass Jars.

Russ, Meyerink & Co.: Pineapples, Tamarinds, and Mangoes, Pineapple Plant with Fruit, Banana Tree with Fruit, Cocoanut Palm Tree with specimens of Fruit, Panama Oranges.

458. Robertson, W. H.: Mechanical Figures, known as "The Blacksmith's Dream ;" Punch and Judy.

This exhibition, which may be seen adjoining the northeast corner of the pavilion, will interest all alike, as one of the most ingenious contrivances to imitate the physical movement ever invented. A large number of miniature beings move, not "like clock-work," but seemingly as natural as life. We have here represented the rural cottage, the princely palace, domestic occupation of the olden time, the blacksmith at his trade, with the musical ring of the hammers, steamboat, cars, and the whole beautifully and artistically arranged. Punch and Judy take due prominence in the exhibition. All is the work as well as the Dream of a Blacksmith.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SUP'T OFFICE.
ENTRANCE.
TICKET OFFICE
LADIES ROOM.
RESTAURANT.
SMOKING ROOM.
GARDEN.
BOILER.
MACHINERY.
MACHINERY.
ENGINE
1
2
3
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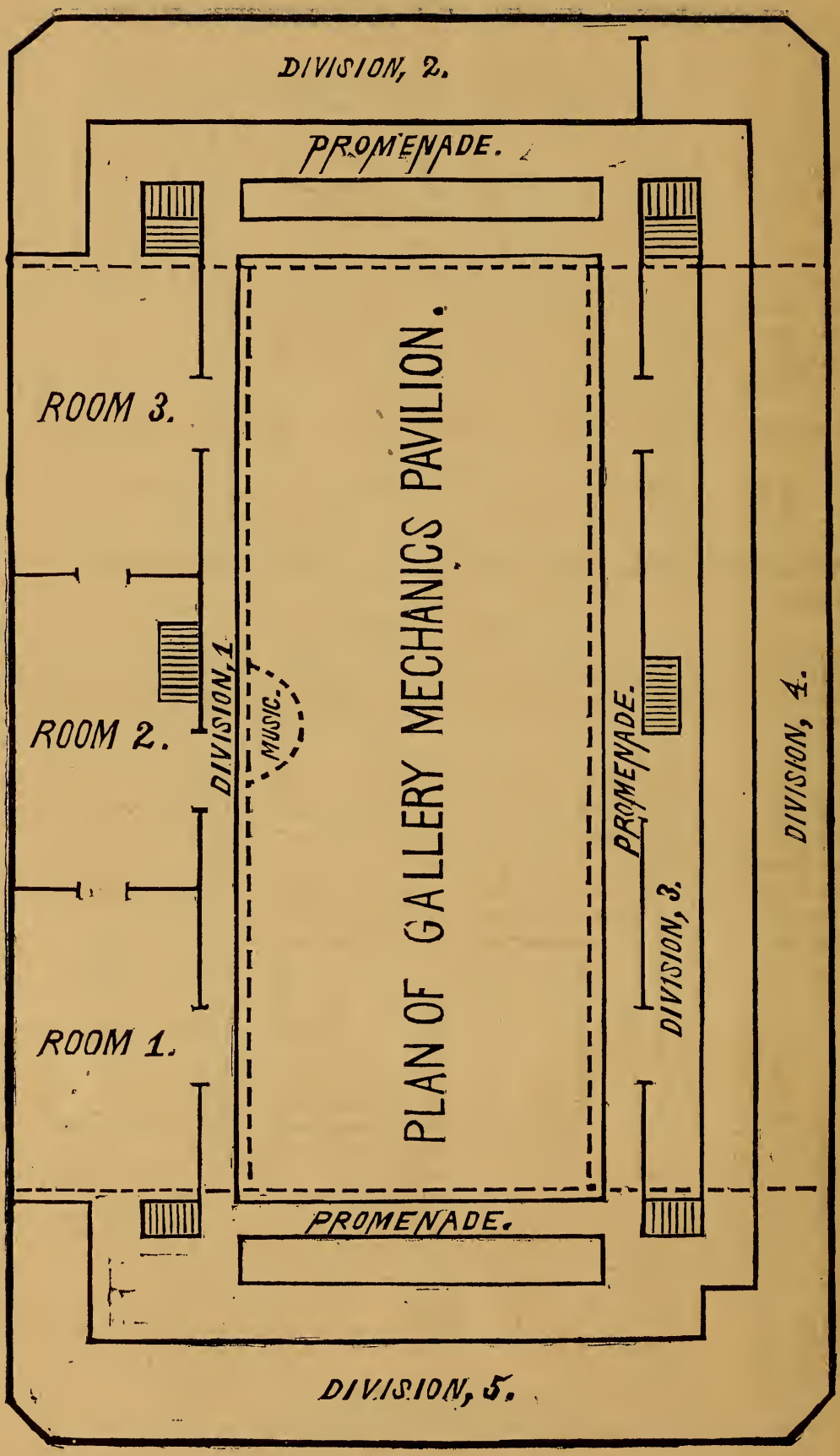
5
6
7
8
MISSION
STREET.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CATALOGUE.

EXPLANATIONS.

The Pavilion is divided into eight divisions, indicated by the figures 1, 2, 3, 4, 5, 6, 7 and 8 at the ends; also 26 sections, indicated by the alphabet, viz: A, B, C, and so on. Division 1 embraces all exhibits along the wall on the Eighth street side. See diagram of the ground plan of the Pavilion published herewith. Large letters and figures are posted up, near the ceiling, in the Pavilion, corresponding to those used in this Catalogue. Also see plan of Gallery in the latter part of this Catalogue.

The Gallery [see plan published herewith] is divided into five divisions, as indicated by the dotted lines in the diagram. The Art Gallery has a separate Catalogue; its rooms are known as Nos. 1, 2 and 3.

The following abbreviations will be used throughout the Catalogue:

Division;	Section;	Gallery;	Room;
div	sec	gal	rm.

For instance, "div 8, sec E and F," is used in abbreviation for Division 8, Sections E and F."

The publishers can only include in this list such articles as have been duly entered in the books of the Exhibition and receipted for by the Entry Clerks. Notice of any errors or omissions should be given to the Secretary of the Board of Managers or the publishers without delay. This list has been as carefully prepared as possible by the Entry Clerk. Several editions will be issued.

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1 Wade, F. M.: 1 Adjustable Chair and Attachment. div 3 sec W

2 Clark, George A., & Bro.: Clark's O. N. T. Spool Cotton (6 cord, best quality, 200-yd spools). div 3, sec V

3 James, David B.: Model Single-Track Railroad Car. div 1, sec T to Z

4 Sutton & Co., Jr., Chas.: Oil-Cloth Clothing, Marine and other Water-Proof Goods. div 4, sec F

5 Monson, Mrs. B. H.: 1 Silk Bed Quilt.

6 Baldwin, Mrs. Julia A.: 1 Silk Bed Quilt.

7 Sonntag & Co., Chas.: 1 Frame Containing Samples of Pistol and Rifle Cartridges. div 3, sec N

8 Hottua & Hansen: 2 Rockway Carriages.

9 Chateau, C. A.: Hand-Painted Shaving Mugs, Tea Set, Vases, Etc. rm 2 art gal

This exhibit comprises decorations on porcelain, ivory, wood, silk, Russian leather, etc. These articles are painted by hand in the most artistic manner after the most beautiful and elegant designs. Pupils are taught this beauitful art at No. 11 Geary street, where on Friday of each week can be witnessed the process of baking the porcelain, on which the decorating is done. If porcelain is broken, Mr. Chateau matches it with exactly the same decoration, no matter how difficult the design. No. 11 Geary St., San Francisco.

10 Woodard, M. W.: Display of Adam's Synchronological Chart. div 1, sec F gal

The leading educators are hearty in pronouncing this chart incomparably the strongest self-educator. A more comprehensive idea of the world's history is gained by one hour with it than by months of study of the best historic works. Crowds linger over its clear cut comparisons and groupings of contemporaneous facts; and children are delighted with its speaking pictures, and love to exercise their newly acquired ability to find for themselves with perfect clearness of understanding exactly when each great man lived, and battle, discovery or event took place. It is a universal history in one grand picture 22 ft. long. Circulars containing a great array of testimonials may be had at the stand, or address 29 Post street (Domestic S. M. office), S. F., Cal.

11 Hendy, Joshua: 1 Challenge Ore-Feeder; 1 Stanford Ore-Feeder; 1 Tulloch Ore-Feeder; 1 Tullock Improved Ore-Feeder. div 7, sec S

12 Preble & Co.: Display of Oregon Cider in Barrels and Bottles. div 3, sec J

The exhibit of the above-named firm represents the cider that has become the most popular of any manufactured on this coast or in the East. This bottled article that may be purchased at almost every grocery on the coast by the keg, barrel, or bottle, possesses a flavor that surpasses any we have ever tried, and approaches nearest to champagne of any beverage that ever sparkled before the connoisseur. This cider is the result of careful attention to its manufacture under the best-known processes, and it is guaranteed to keep in any climate without losing any of its original sweetness or sparkle. This is the oldest and most reliable house on the coast—218 Davis St., San Francisco—and is the only one that makes a specialty in this line. We would call the attention of the visitors to the pavilion to this most excellent of the productions of our coast. This firm are sole agents for the coast for the celebrated Westminster sauce.

13 Henley, Dr.: 12 Cases of Dr. Henley's Oregon Kidney Tea. div 5, sec T

This tea is made from an evergreen shrub with small leaves, much resembling the Chinese tea plant, and possesses an aromatic and pungent odor. It was discovered by Dr. Henley in the range of the Cascade mountains, Oregon. Its peculiar properties are a speedy and permanent action upon the kidneys and urinary organs. At the close of the fair a beautiful silver tea-set for a child will be given to the child not over two years old who can speak most plainly, "Oregon Kidney Tea." This tea is

prepared by Hodge, Davis & Co., Portland, Oregon.

14 Lake & Co., Henry: Display of Patent Japan Shoe Blacking. div 8, sec X

15 Marwedel, C. F.: Case Mechanics' Tools, Moulder's Tools, Chucks, Large Steel Dogs. div 6 sec S

16 Barker, Steven: Giant Emory Wheels and Cloth. div 6, sec S

17 McAllister, H. E.: 1 Silk Quilt. sec 1, div Q gal

18 Vulcan Powder Works: 1 Case Powder Samples and 1 Thawing Box. sec 4, div S

19 Tonite Powder Co.: Powder Samples and Ship's Distress Signals. div 4, sec S

20 Curragh, J. M.: Granular Effervescent Salts. div 1, sec E

21 Fisher, Mrs. Abby: Preserved Fruits and Vegetables, Blackberry Brandies, Pickles and Home-Made Vinegar. div 3, sec M

22 Still & Co, W. G.: Hitchcock's Kerosene House Lamps, Starlight Oils, Chandeliers, Brackets and Pendant. div 6, sec L

23 Holler, Walter: Case of Cutlery. div 4, sec S

24 Goss & Adams: Dow's Patent Steam Pump. div 2, sec Y

25 Roach, Jno.: Telescopes, Compasses, Surveyor's, Miners', and other Mathematical Instruments. div 4, sec M

26 Woodward's Gardens: Collection of Natural History. div 2, sec Y, gal

27 Houston, W. J., & Co.: Display embracing a full line of Dausman's New Deal, Horse Head, Tin Tag and Navy Tobaccos, also a full line of Duke of Durham Smoking Tobacco, Royal Soap Co.'s Borax, Turkish, Laundry, German, Mottled, Bleaching and Toilet, White and Mottled Castile soaps, Peerless, Gloss, and Corn Starch. div 4, sec J.

28 Hawley, M. C. & Co.: 1 Rice's Straw-Burner Engine; 1 Canton Pitt's Separator; 1 Gilpin Plow; 3 Cider Presses; 1 Cider Mill; 4 Philadelphia Lawn Mowers; 1 New Model Mower; 1 Set of Fancy Wheels and Pole. div 2, sec Z

29 Klinkner & Co.: Rubber Stamp, Seal Presses, etc. div 4, sec V

30 Brunswick & Balke, J. M. & Co.: Billiard Tables, Cue Racks and Balls, and Billiard Materials. div 5 sec T to W

This display is worthy of the closest attention. The collection, embracing as it does the best art in this country in workmanship of woods, the "Queen Anne" table in the center, the one that took the gold medal at the Centennial exposition, and also at Paris and Sidney, Australia and in England, calls for much more than a casual inspection, and would add even to the attractiveness of the art gallery. The Monarch cushions of this company's make, are, for correctness of angles and durability, the best made, and are entirely used in all public matches, and are supplied to all the tables.

31 Deaves & Goosman: 1 Antisell Piano. div 7 and 8 sec A

32 Hermann, C.: Hats, Caps, and Gold Embroidery. div 4 sec U

33 Browell, J.: Patent Chimneys and Fancy Chimney Tops. div 1, sec S

34 Dewey & Co.: The MECHANICS' FAIR DAILY Steam Printing Establishment. div 5, sec P and Q

This newspaper is issued every evening at 7½ o'clock, and a large edition circulated free during each evening of the Fair. Size of single sheet 21x28 inches. Double sheet 28x42. The quality of paper used is first class. The publishers aim to give concise descriptions of the most important inventions and articles on exhibition, penned by able writers and reporters. Also, brief items of the latest news, humorous paragraphs, incidents of the Fair, programme of music for each day and evening, and all official announcements of the managers of the Fair.

35 Dewey & Co.: Models of Patents and Pacific Coast Inventions; Copies of U. S. Foreign Patents. div 5, sec P and Q

36 Dewey & Co.: Ten Bound Volumes of the MECHINICS' FAIR DAILY Published at Previous Fairs. div 5, sec P and Q

37 Dewey & Co.: Bound Volumes of the *Mining and Scientific Press.* div 5, sec P and Q

38 Dewey & Co.: 12 Bound Volumes of the *Pacific Rural Press.* div 5, sec P and Q

39 Dewey & Co: 12 Samples of Dewey's Patent Newspaper File Holders. sec 5, div P and Q

40 Cal. Publishing Co.: Bound Copies of the *Monthly Californian*; Sample Copies of the *Monthly Californian* from Jan. 1st to Sept. 1st, 1880. sec 5, div P and Q

41 Figer Bros., Cal. Brush Factory: Brushes, Feather Dusters, Cal. Improved Sweepers and Whisp Brooms. div 4, sec F

42 Foye Bros.: Pencils, Axle Grease, Crucibles, Lubricators, etc. div 4 sec G

The Dixon Crucible Co., manufacturers of Dixon's pencils, crucibles, stove polish, perfect lubricator, axle, machine and belt grease, graphite paint, electrotyping, plumbago, etc. Foye Bros. sole agents, 507 California street.

43 Gordon Hardware Co.: Chain Forge in active operation. div 7, sec T

44 Gordon Hardware Co.: Weather Vanes. div 7, sec T

45 De Long, F.: Apple Cider Vinegar, Apple Cider. div 3, sec N

46 Will & Fink: Cal. Cutlery. div 4, sec R

47 Farrar, B. F.: Spring Bed Bottoms, Top Mattresses in sections, Clipper Spring Mattresses, Economist Spring Mattress, Slat Spring Bed. div 3, sec P and Q, gal

48 Burr, C. H. & G. W.: Burr's Patent Slop Hoppers, Weather Strips, Patent Oil Cans. div 6, sec M

49 Scott, Dr. A. G. & Co.: Dr. A. G. Scott's Russian Polish. div 6, sec L

50 Kendall, Stephen: Kendall's Patent Quartz Mill; Upright Engine; Ore Feeder. div 7, sec V

51 Souther, Jos. W. & Co.: Dr. Abernethy's Green Ginger Brandy; Bennett's Stomach Bitters; Extract of Lemon. div 3, sec I

52 Goss & Adams: Climax Ore Feeder. div 7, sec W

53 Davis Sewing Co.: The Davis Manufacturing and Davis Family Sewing Machine. div 3 and 4, sec O, R and S

54 Myers, John: Knuckle Washing Machine; Parlor Toy Gun. div 6, sec P

55 Duncan, Thos.: 1 Patent Model of Corn, Pumpkin and Seed Planter. div 6, sec P

56 Osborn & Alexander: Barnes' foot-power Scroll Saws, and Turning Lathes, Mechanics' Tools, Fire Escape, Amateur Scroll Saws and Columbia Bycicle. div 6, sec J

57 Clark, Miss J. E.: Two Oil Paintings. art gal, rm 3

58 Batchelor, Van Gelder & Co.: California Spring Tooth Harrow and Cultivator. div 2, sec Y

59 Burr, C. C. & Co.: Mustard, Spices, Champagne, Baking Powder. div 4, sec H and I

60 Lorquin, E. F.: Natural History. div 5, sec R and S

61 Jones, W. G.: 2 Safety Milk Cans; 1 Patented Automatic Bread and Milk Box. div 3, sec R and S

62 Taylor & Co., S. P.: White and Colored Paper, Flour, Vegetable Seed, and Confectionery Bags. div 6, sec F

63 South Coast Paper Mills: Straw Paper. div 6, sec F

64 S. F. Gaslight Co.: Ammonia. div 6, sec M

65 Classon, Miss J.: 1 String of Button. div 1, sec L, gal

66 Frelloche & Mahler: 2 Herald Washing Machine. div 6, sec L and M

THE HERALD WASHING MACHINE for families, hotels, etc. This machine will do the work of 10 persons in less time than by the hand, with a saving of soap which will pay for the machine in six months. From the coarsest to the finest fabrics can be washed without injury. The machine is not complicated, but is so simple and easy to operate that a child can run it. Frelloehr & Mahler, proprietors, 49 and 51 Fremont St., San Francisco, Cal.

67 Hatch, John: 3 Cases of Minerals. div 4, sec N

68 Sanborn, A. W.: Express, Delivery and Lumber Wagons. div 2, sec W

69 Paige, S. B.: Hart's Patented Detroit Emory Wheels. div 7, sec H

70 Gorla & Co., J.: 1 Carved Black Walnut Side Board. div 4, sec X gal

71 Grundel, J. G.: Display of Ivory Goods. div 4, sec O

72 Detrick & Co., E.: Display of Patented Cotton Belting. div 6, sec S

73 Gladding, McBean & Co.: Iron, Stone Sewer Pipe, Flower Pots, Plain and Ornamental Terra Cotta Goods, Fire Brick. div 2, sec S and T

74 Indianapolis Chair Manufacturing Company: Black Walnut Chamber and Parlor Sets; Black Walnut Dining-room and Bedroom Chairs; Black Walnut Marquity Sideboard. div 4, sec R and S gal

75 A. S. Hallidie: All Sizes of Iron, Steel and Galvanized Wire; Wire Cables for Bridges; Hoisting Cables, All Sizes, Round and Flat; Street Railroad Cables; Elevator Ropes, etc.; Ropes for Transmitting Power and Ship's Rigging; Wire Strand for Bell Pulls and Smokestack Guys; Sash Cord, Signal Halyards, Picture Cords, Clothes-lines, etc; Barbed Fence Wire. div 4, sec F

76 Grave & Co., B.: Coupes, Rockaways, Top Carriages, Business Buggies, Oppenheimer's Pat. Rockaway, shifting seat. div 5, sec A, gal

This firm are the manufacturers of the celebrated Openheim double buggy, which possesses the superiority over all other buggies of being instantly changed from a single-seated vehicle to one of two seats, without crowding or making uncomfortable the occupants of the buggy. It is by far the most elegant, comfortable and durable shifting seat ever built. It has full knee room between the seats, and has the cushion pointed, auxiliary spring, an easy riding spring for one person, but capable of carrying four heavy men. Manufactory, 421 and 423 Pacific St., S. F.

77 Walcom, Geo.: Hansen's Patent Bed Lounges and Sofas. div 3, sec R, gal

78 Frank Bros.: 1 Walter A. Wood's Twine Binding Harvester, Sweep Rake and Mower, 1 Walter A. Wood's Sweep Rakes, 1 Walter A. Wood's Enclosed-Gear Mower, 1 Browne's Gang, 2 Browne's Sulkies, 1 Defiance Riding Cultivator, 1 Defiance Cultivator, Walking, 1 Buford Spring Cultivator, 1 5-tooth Diamond Cultivator, 7 Rock Island Clipper Plows, 2 Iron Beam Plows, 2 Rock Island Turf and Stubble Plows, 1 Rock Island Debraska Braker, 4 Rock Island Chilled Plows, 1 R. R. Plow, 1 Buford Road Scraper, 2 Shovel Plows, Farm Wagons and Ajax Lawn Mower. div 2, sec Y

The above important exhibit of improved machinery for the agricultural interests of the Pacific coast was one of the chief attractions. The Walter A. Wood's twine-binding harvester being in operation often was a convincing proof that this was one of the great labor-saving ma-

chines to the farmer. In fact the demand for this season was three times the amount of the supply. The same may be said of the whole line of Mr. Walter A. Wood's harvesting machines, as Sweep Rake Reaper, Enclosed, Gear Mower of which Messrs. Frank Bros. are sole agents. The lists of plows, cultivators and implements exhibited seemed to be wisely selected for the varied agricultural interests of the Pacific slope. This young and enterprising firm are taking the lead as one of the great agricultural houses of this city. Address Frank Bros., 319 and 321 Market.

79 Balny, A. J.: Ostrich and Fancy Feathers. div 2, sec Y, gal

80 Wickson, G. G.: 2 Eclipse Incubators in operation, hatching; 1 Eclipse and La Motte Artificial Mother with Chicks; 1 La Motte Artificial Mother with Chicks. div 7, sec H

This machine answers the hatching purpose of the ordinary fowl, and is regulated by electricity. In order to meet the increasing demand from this coast for the Eclipse Incubators, the manufacturers have opened an agency in this city. The Eclipse has already come into quite general use on the coast, and gives entire satisfaction. G. G. Wickson, Agent, 349 Market street, San Francisco.

81 Garland Improved Sewer Gas Trap Mfg. Co.: Garland's Improved Sewer Gas Traps for Wash-Basins, Bath Tubs, Sinks, etc. div 6, sec M

82 San Francisco *Chronicle:* The *Chronicle* Stereotype Plates, Ink Roller used on the *Chronicle* Press. div 4, sec Q

83 W. W. Montague & Co.: Marbelized Iron Mantels, Enameled Grates and Trimmings, Brass Fenders and Fire Dogs, Enameled Encaustic, Plain and Artificial Painted English Tile, Tile and Wood Mantels. div 2, sec Z, gal

84 Mallon John: Ground, Cut, Embossed, Stained, Bent, Painted Glass, and Bent Glass Mirror. div 3, sec D and E

85 R. Fay & Co.: Fay's Upright Piano, California Made. div 3, sec X, gal

86 Harvey C. D.: Hot-Water Furnace and Radiators, for Heating Buildings. div 6, sec N

87 Brehm, R. W.: Fancy Wood Turning. div 5, sec T

88 Bell, R.: Bell's Silver Polish in Bottles. div 4, sec V

89 Pierce & Son: Dr. Pierce's Magnetic Elastic Trusses, Pile Trusses and Electric Belts. div 5, sec B, gal

90 Waggoner, G. W.: Adam's Patent Pillow Sham Holders. div 3, sec H, gal

Adams' Patent Sham Holder.—This useful invention has proved to be the greatest possible blessing to housekeepers, as it saves trouble and washing, and can be adjusted to any ordinary sized bed. Thousands of these holders are now in use, and no one who has ever tried them would be without them. There are many reasons why they should be used. With this invention the shams are always in their place. It saves the trouble of using false pillows. It saves all the time and trouble of taking off and putting on the shams each day, besides lessening the danger of soiling them. The shams will last much longer without washing, therefore will wear longer, and by the washing they save, will pay for the holders in a short time. They will never get out of order when used properly, and will last for years. These holders have received the first premium at the following fairs: At State fair, Sacramento; Golden Gate fair, Oakland; and Santa Clara Valley fair, San Jose; and have been pronounced by all who have seen them as invaluable to those who use shams. They are in price so low, as to place them within reach of all. G. W. Waggoner, 408 Tenth street, Oakland, Cal., general agent for the Pacific coast. Orders by mail promptly filled.

91 Pacific Spring & Mattress Co.: Lane's Patent Curled Wool and Mattresses, Crandall's Gold Medal Double Spring Beds, Chamber Furniture, Spring and Hair Mattresses, Bed and Furniture Springs, California made. div 4, sec H and I, gal

92 Dunn, Horace D.; Spencer's Patent Lamps, Fishing Tackles. div 3, sec O and P

93 Verrue, E. J.: Verrue's Patent Hydraulic Waste Pipe Cleaner. div 7, sec R

This is a powerful hydraulic pump; can be used on any size pipe, and can be attached and set to work in three minutes. Its power, cheapness and adaptability make it almost indispensable to any household.

94 Mish, Mrs. S.: Hats and Bonnets, and Millinery Goods. div 2, sec Y gal

One of the most elegant and charming exhibits in the line of millinery goods is made by Mrs. S. Mish. Her case stands near the elevator in the north gallery, and for neat and tasteful style, her hats, bonnets and millinery goods are not surpassed by any other exhibit in the pavilion. Mrs. Mish is one of the earliest and best known dealers in this class of goods in San Francisco, and a mere glance at her exhibit is sufficient to tell the observer why it is that hard times never come to her establishment, which is always crowded with the very best class of customers which the city affords. There are no better or more desirable forms of utility or loveliness into which silks, feathers, and other fabric material which enter into the adornment of a lady's head, can be wrought, than may be found at the establishment of Mrs. Mish. A diploma was awarded by the Institute in 1857, for superior style and finish of millinery, to Mrs. Mish. The eyes of visitors will at once take in and properly appreciate the beauty and merit of this exhibit. Mrs. Mish is the proprietor of two establishments, viz., Paris millinery, 708 Market, and "The Bon Ton," 133 Kearny St. Call and see her goods.

95 Peake, Chas.: Gibb's Turkish Rug Patterns. div 3, sec X, gal

96 Poheim, Joe: Custom-made Clothes, Samples of Clothes. div 3, sec F, gal

Mr. Poheim makes a very creditable display, in the east portion of the gallery, of clothing for gentlemen and of piece goods for gentlemen's wear. His goods are always of excellent quality, and the workmanship from his establishment is equal to the best in the city. Mr. Poheim is too well known, both by his work and by his judicious advertising, to need any special mention to call attention to his house. His business has increased so rapidly that he is now obliged to occupy not less than three stores, in as many different parts of the city. Starting originally at 203 Montgomery street, for the convenience of customers in other portions of the city he has been obliged to open branch stores at 103 Third street and at 724 Market street. He receives orders at either store, and gives the best cloth and the best lining which can be afforded for the price, and in all cases the best workmanship. His prices are low and a perfect fit is always guaranteed. For the convenience of gentlemen who reside out of the city, rules for self-measurement will be sent to any address free of charge. Call and see him.

97 Rutherford, Mrs. W. P.: Supporters, Shoulder Braces and Bandages. div 2, sec Y, gal

98 Larkins & Co.: Rockaways, Wagons, Buggies, Sulkies, Ladies' Phaeton. div 5, sec A, gal

99 Bollinger, Wm.: Pleating Machine in operation, Cal. invention. div 3, sec P, gal

100 Kimball, Chas. P.: German Relief Pictures, the "Gem" Stamp for marking Card and Clothing, White's Novelty Cot Chair, Stoak's Shading Pen. div 3, sec V, gal

101 Barnard Business College: Ornamental Pen Flourishing and Drawing. Rm 3, art gal

102 California Wire Works Co.: Bowers and Summer Houses, Wire Fences and Gates, Chairs, Baskets and Designs, Bird Cages, Aquariums and Flower Stands. div 5, section J, K and L, in div 6, sec J and K.

This important exhibit embraces the following fine samples of:

Useful and decorative wire manufactures.

Wire screen cloth—brass, copper, iron and steel.

Wire cloth of all grades for numberless uses.

Galvanized twist-wire netting for fences, partitions and enclosures—strong, cheap and durable.

Coal, ore and gravel screens, riddles and sieves, white lustral wire, miscellaneous goods.

Traps for rats and mice.

Wire gates, fences and railings, of plain and ornate designs, for business offices, gardens, cemetery lots, etc.

Octagon garden bowers or flower temples, of galvanized diamond wire work, with ornamental domes, 8 ft. diameter by 12 ft. high, made and bolted together in convenient separable sections.

Wire garden arches, of various patterns and sizes.

Settees, chairs, tables, etc., of painted wire work, for garden, lawn and general outdoor use.

Flower-pot stands, of simple and elaborate design—an elegant and attractive assortment of the latest and most unique styles.

Aviaries and singing-bird cages of numberless patterns; breeding cages, squirrel cages, robin, parrot, paroquet and mocking-bird cages.

Wire dress figures, suit frames, etc., the most fashionable and durable.

Fireplace fenders and spark guards.

Diamond wire-work window guards—the most efficient protectors of basement and all exposed windows, etc.

Wire Screen Cloth, Brass, Copper, Iron and Steel Wire Cloth of all grades; Galvanized Twist-Wire Netting; Coal, Ore and Gravel Screens; Riddles and Sieves; Improved Parallel Locked-wire Coal, Ore and Gravel Screens; Wire Dress Figures, Suit Frames, Wire Floral Designs and Emblems, Miners' Safety Lamps, Casting Brushes and Spiral Springs; Household Utensils of every description.

103 Hagans, G. W.: Sheet music, 1 Antisell Piano. div 3, sec P, gal

This exhibit is one specially worthy of notice, from the fact that Mr. Hagans is endeavoring to serve the public of San Francisco with sheet music printed in our own city. He is prepared to furnish the trade with music for periodicals, music titles, leaflets and sheet music generally, electrotyped and printed from the latest and most improved music type, at the very lowest prices. That his efforts to thus establish a new home industry are appreciated, may be inferred from the fact that within the last four years he has printed for the trade of this city not less than 500,000 pieces of music. In order to do this and serve the public fully and perfectly in this line, Mr. Hagans has supplied himself with all the latest improvements which have been made in music type, to enable the printer to indicate in the most accurate manner all the necessary characters in music composition. Electrotyped music plates are furnished at reasonable rates. Composers desiring to bring their compositions before the public are especially invited to call upon him. His printing house is located at 532 Clay street. Mr. Hagans has also opened a retail store at 120 Post street, nearly opposite Gray's, where the latest music, both vocal and instrumental, may always be obtained at the lowest terms. Call and see him, and patronize home productions.

104 Mathewson & Co., S. R.: Mathewson's Patent Suspended Wire Cushions for Billiard Tables. div 4, sec T

The special feature in the table is its peculiar cushion, which instead of being solid rubber, is made of a piano wire stretched tight, the elasticity of which answers the purpose of the ordi-

nary cushion. These wires cross each other inside the corners of the corner studs so that the ball can never cross the studs A very ingenious and easily arranged method is employed to keep the tension of the wires perfect, this mechanism being in two of the corner studs, so that the wires can be tautened at any time. The bed of the table is made of a peculiar composition formed in a plastic state and allowed to harden. This when smoothed off is covered with cloth in the usual way, and is perfectly solid in its wooden bed, but not half so heavy as the ordinary beds. The wires when drawn tight make a much more elastic cushion than those of ordinary form, and the balls can be driven many more times across the table than when a rubber cushion is used. The cue can be passed under the wire when desired, so some shots are possible which cannot be made with a solid cushion.—Place of business No. 51 New Montgomery St.

105 Bowley, Mrs. S. C.: 1 Carpet Rug. div 1, sec L, gal

106 Howatt, Mrs. G.: Hair and Wax Work, Cloth Flowers. div 1, sec E, gal

107 Pettee, Mrs. J. P.: Shade containing a Wax Lilly. div 1, sec K, gal

108 Mantz, Albert: Case containing Fancy Wood Work. div 1, sec Q, gal

109 Smith, Jno.: 2 large Bowie and Jack Knives. div 3, sec V and W

110 Kohler & Chase: Brass and Wood Instruments, Decker Bros. Upright Piano, J. C. Fisher's Upright Pianos, Mason & Hamlin Organs, Cluff & Warren Organs. div 3, sec K and L, gal

Prominent among the exhibits in the north gallery is the large case of brass and wooden musical instruments exhibited by Messrs. Kohler & Chase. We have never before seen a larger or finer exhibit of this kind than is now being made by this firm, nor one more artistically or tastefully arranged. In addition to those thus shown in the case, they also exhibit a number of most elegant pianos and parlor organs. The well-known reputation of this firm is a sufficient guarantee that whatever they offer the public is all that it is represented to be. Their Decker pianos are well known throughout the city, and there is scarcely a concert given here, where this instrument is not brought into requisition to furnish the instrumental accompaniments to the voice. In addition to the Decker instrument, they also keep constantly at their warerooms, No. 139 Post St., a general assortment from other manufacturers. In their exhibit may be seen elegant instruments from the establishment of J. C. Fisher, and also Mason & Hamlin, and Cluff & Warren's parlor organs. This exhibit gives a very good idea of the beauty, finish and quality of the instruments furnished by this firm, which is one of the largest and oldest musical establishments in the city. The head of the firm, Mr. Kohler, is now absent in the Eastern States and Europe, whither he makes almost annual trips, to buy at the largest markets, and to keep posted, by personal inspection and inquiry, as to the most approved goods of every description which enter into his extensive line of business.

111 Fourquet, Ivan: Model of Frigate "La Magicienne." div 2, sec D

112 Dengler, P.: Cal. Sugar-cured Hams, Bacon, and Smoked Beef and Lard. div 4, sec J

113 Bowen Bros.: Bowen's Premium Yeast Powder. div 4, sec L

114 Smart, Geo. R.: Stencils. div 4, sec U

115 Ohmen, W. H.: Ohmen's Upright Engine, Horizontal Engine. div 7, sec Q

116 Gosling, Geo. N.: Egyptian Te-nexine and Mucilage, Leather Dressing, Sweet Tar Drops, Ives Patent Door Bolts. div 3, sec K

117 Bretscher, A. M.: Millinery. div 2, sec Y, gal

118 Sherman, Hyde & Co.: Wood and Brass Instruments, Weber, Haines Bros. and Sherman, Hyde & Co.'s Pianos, and Estey Organs. div 4, sec O and P, gal

119 Schoenfeld & Heyman: Koser's Patent Sofa Bed and Chair Bed. div 4, sec E. H, gal

120 Duplex Galvanic Co.: The Duplex Galvanic Belts, Holbrook's Opal Cream, Emollient Balm, Hair Tonic, Sharaba Lotion and Freckle Eradicator. div 5, sec B gal

It is no longer considered a delusion to cure diseases with electricity. Especially in the treatment of nervous disorders, it has become an assured agent. Among all the devices for introducing electricity into the system, none has proven so effective as the Duplex Galvanic Belt. This belt has a decided superiority over all other inventions for various reasons. First, because of its duplex action, it having two distinct sets of batteries. Second, its method of introducing electricity directly through the body. Third, its *cost*, which is one-half that of other belts. It has well been termed a "boon to humanity," for in cases of rheumatism in the arms or limbs, it has been found to effect a complete cure, by simply encircling the body, thus establishing the fact that it sends a current throughout the entire system. This belt can be repaired at small cost, by having new batteries supplied, by applying to the Duplex Galvanic Belt Co., No. 112 Kearny street San Francisco.

121 Home Art Inst.: Wax, Paper, Worsted, Cloth, Feather and Shell Flowers, General Display of Fancy Work, Embroidery, and Fancy Worsted Goods. div 2, sec Y, gal

122 Horne & West: Electro-Magnetic Belts. div 3, sec H, gal

123 Cal. Elastic Truss Co.: California Patent Elastic Trusses. div 3, sec H, gal

124 Levenson, M.: Chinese & Japanese Goods. div 4, sec W

125 Wiester & Co.: Oil Stoves, Clothes Wringers, other useful Household Utensils. div 3, sec R and S

126 Schiefer, Miss Julia: 1 Charm String of Buttons, Shells, etc. div 1, sec L, gal

127 Schiefer, Mrs.: 1 pair Embroidered Suspenders, made 30 years ago. div 1, sec L

128 Morris' Pneumatic Manfg. Co.: Bronzed Door Locks and Hinges, Door Knob; all California inventions. div 7, sec N, gal

Mr. Morris, whose exhibit is a prominent feature of the pavilion, has added a new invention to the long list of life-saving apparatus. This invention is now before the public, and we call especial attention of railroad managers to its utility in the preservation of life. Human life is too precious a boon to be thrown away by the carelessness of railroad officials. The apparatus works by air pressure, and at a given point on the railway track without the aid of a watchman rings a bell as a warning of the approaching train. At night it displays a red light, and a red signal in daytime. A small car is run back and forth adjusted so as to illustrate the practical workings of the invention. Besides this valuable railroad signal, Mr. Morris turns out at his manufactory, situated at 1,045 Market street, pneumatic house bells, steamboat bells, church bells and fine bronze hardware, the latter of which he has made a specialty.

129 Eymann, August: 1 small Picture on Wood; 2 Pictures on Glass. art gal, rm 1

130 Clark, Hannah G.: 1 Picture—Bunch of Flowers. art gal, rm 3

131 Spiller, Mrs. H. S.: Mrs. Dr. Howe's Celebrated Neuralgia and Toothache Cure. div 5, sec B, gal

Mrs. Dr. Howes' neuralgia, headache and toothache cure. Catalogue No. 131. This wonderful remedy is now known to effect the most marvelous cures; it will stop the most violent neuralgia pain and headache as soon as applied. For toothache it is invaluable. Dozens of persons cured daily at her stand top of right hand stairs Mission street entrance. Every purchaser of a bottle of this wonderful remedy will sign their name, and on the last day of the fair those beautiful prizes of useful table silver will be given away among the purchasers of her remedies in the pavilion. Every person wishing a beautiful present should go and examine.

132 Williamson, Mrs. C. A.: Wreath of Feathers and of Hair. div 1, sec K, gal

133 Brodie, J. R., & Co.: Rheumatic and Neuralgia Cure. div 3, sec G, gal

134 Main & Winchester: Harness Ornaments; Rawhide Goods; General Display of Harness and Saddlery; sets of Harness; Saddles and Bridles. div 5, sec A, gal

135 Mitchell, Edward H.: 1 sheet Foreign Stamps and Postal Cards. div 1, sec Q, gal

136 Mackay, Alex.: 13 Inside Door Mats; 11 Hearth Rugs and Rag Carpets. div 3, sec U, gal

137 Hamm, Mrs. Lillie E.: Cameo Paintings. Rm 2, art gal

138 Simons & Wallace: 1 Rotary Water Engine. div 7, sec N

139 Tyson, Bryon: 2 Grate-Bar Furnaces; 1 Grooved Riffle; 1 Concentrator, Iron; 1 Amalgamator and Concentrator Model. div 7, sec R

140 Penlington, George: 1 Model Quicksilver Furnace. div 7, sec R

141 Owen, J. B.: Terra cotta Vases; Water Fountains and Flower Pots, Cal. made. div 2, sec R and S

142 Owen, J. B.: Stone and Earthenware. Cal. made. div 2, sec R and S

143 Owen, J. B.: Buckingham and Cooking Ware. div 2, sec R and S

144 Gas Consumers' Association: Standard Automatic Gas Regulator. div 3, sec M

In reference to this exhibit it is said that the Gas Consumers' Association of San Francisco is daily demonstrating by direct and practical test, the truth of the following maxim: that any given amount of gaslight will cost from 25% to 50% more under the ordinary pressure at which gas is burned, than the same amount of light, of a much superier quality will cost under the scientific pressure of the Standard Automatic Gas Regulator. The rental system adopted by this Association for the use of their regulator, has afforded the greatest satisfaction; and proved best for the interest of gas consumers, under our reliable and continued responsibility for the perfect action of the instrument and future keeping of it in proper working condition. Office, 202 Bush St.

145 Emeric, H. F.: Lithographic Weekly Illustrated Paper. div 1, sec N gal

146 Chapman, Henry: Taxidermist Work. div 3, sec N

147 Riccard, Miss Mary: 1 Water Color Painting. art gal, rm 3

148 Riccard, A.: 1 Water Color Painting. div 3, sec G

149 Cowan, W. H.: 2 models of Ships, made of Lead. div 2, sec D

150 Paige, S. B.: 3 Fire-Proof Safes. div 3, sec N and O

151 Paige, S. B.: 1 Fire and Burglar-Proof Safe. div 3, sec N and O

152 Dempster & Keys. 1 lot Crucibles, Stirrers, Dippers, Range and Stool. div 6, sec M

153 Isaacs, Jos. C.: 1 Original Pen Sketch. Rm 3, art gal

154 Schnoor, Miss Anna: 1 Crochet Bedspread; 1 Satin-Covered Sofa Pillow; and 1 Satin-Covered Pincushion. div 1, sec P, gal

155 Tubbs, Mrs. M.: 1 Knit Quilt—knit by an invalid gentleman. div 1, sec L, gal

156 Scoville, Mrs. Nelly L.: 1 case Hand-Painted China. Rm 2, art gal

157 Voy, C. D.: 1 case South Sea Island Curiosities. div 1, sec E, gal

158 Denniston, E. G.: 1 case Plated Ware, 1 case Old Goods Replated, 1 Silver Plated Mining Plate. div 4 and 7, sec N and U

159 Cal. Silk Manf'y Co.: Spool and Embroidering Silks. div 3, sec W, gal

160 Carlson & Currier: Belding Spool Silks. div 3, sec M, gal

161 Doble, A.: Blacksmith's, Horse Shoer's and Stone Cutter's Tools. div 8, sec J

162 Franco American Perfumery Co.: Perfumeries—Colognes, Handkerchief Extracts, Hair Oils, Elite Bouquet and Florida Water. div 5, sec B, gal

163 Darling, Miss Birdie: 1 Charm String of Buttons. div 1, sec L, gal

164 Laeremans, Frank: 2 Sofa Beds, 1 Reclining Chair, 1 Sofa Bed Model. div 4, sec X, gal,

165 Schull, Miss Julia: 1 Crochet Bed Tidy. div 1, sec P, gal

166 Schreppel, Theodore: The Schreppel Patent Adjustable Mitre and Plaining Machine. div 2, sec Z

167 Boicelli, Maria: 1 Crochet Bed Quilt. div 1, sec K, gal

168 Hinckly, Ezra: 10 Metallic Spring Bed Bottoms, 1 Hair Mattress, 1 Bedstead, 1 Marble Top Table. div 3, sec F, gal

169 Cal. Volcanic Mineral Water Co.: Volcanic Mineral Spring Water; known as Fahrenkrug's Eradicator. div 3, sec G

170 Jewell, Mrs. H.: 8 pieces Kensington Embroidery. div 1, sec U, gal

171 Heatherington, J. E.: 1 case Tropic Fruit Laxative. div 5, sec B, gal

172 Pulvermacher Galvanic Co.: Electric Belts and Bands. div 5, sec B, gal

173 Scott Bros.: Wire and Steel Wire Rope, Thimbles and Shackles. div 6, sec N

174 Peeler, E.: 1 Case of Miscellaneous Coins. div 4, sec J

175 Wherity, Miss Maria: 1 Gilt-framed Worsted Picture, "Esther Crowned by Ahasuerus." div 1, sec K, gal

176 Clark, Truman S., & Co.: Brass Bedstead, Folding Chair, Woven Wire Mattress. div 4, sec D and E, gal

177 Samisch, Robert: Hand Painted China Ware. rm 2, art gal

178 Toppman, Mrs. Augusta: 1 Crochet Bed Spread. div 1, sec I, gal

179 Bowman, Mrs. Agnes: Worked worsted Rug. div 1, sec N, gal

180 Sack, Wm. M.: Sack's Automatic Measuring Tank and Water Closet. div 7, sec R

181 Eland, Robert: Wilson's Pacific Gas Valve and Water Seal Trap. div 7, sec R

182 Schnoor, Miss Anne: Worsted Worked Sofa Pillow. div 1, sec P, gal

183 Gump, S. & G.: Mirrors, Pictures and Frames. div 4, sec Q and R, gal

184 Jackson, R. W.: Polished Shells, Abalone Jewelry, Inlaid Frames. div 4, sec L

One of the most beautiful exhibits that attract the eye of visitors is that of Mr. Jackson, the proprietor of the Pioneer Abalone Shell Jewelry manufactory of this coast. In the center of the exhibit appears two beautiful combination aquariums containing gold fishes and birds. By an ingenious combination, the center of the aquarium contains the bird cage with birds flitting round apparently in the water, mingling with the gold fishes sporting in their element. The tank containing the fish encircles the cage completely, thus presenting a novel and beautiful effect. Mr. Jackson has applied for a patent for this new addition to the ornaments of the fashionable American home.

Facing toward the center of the pavilion an elaborate table top of marble inlaid with Abalone mosaic work. This elegant specimen of the high art of mosaic work surpasses anything we have ever seen. A humming bird and butterfly appear hovering over two fine representations of the Japanese lily, while the center is adorned with a magnificant mosiac chess board. The whole piece is as solid as if it was of one piece instead of innumerable mosaics. The clock on the left hand and cross on the right are also beautifully inlaid with this most wonderful of shells. Mr. Jackson very kindly showed us the different specimens of his work, among others a gold pen knife with abalone mosaic handle, also ladies' gold glove fastener, glove boxes, jewelry boxes, ladies' toilet and hand mirrows, crib boards, and jewelry sets of every description, sleeve buttons, watch chains and match boxes, all inlaid upon solid gold. Mr. Jackson is the pioneer in this work of art, and by his industry and skill has received numerous medals from the various fairs in Oregon, Stockton, Reno, Sacramento and the Mechanics' fair of this city.

185 Cutting, John T., & Co.: Falk's Milwaukee Bottled Beer, American Breakfast Cereals, Ottumwa Starch Co.'s Starches. div 3, sec U and V

186 Keller, P. G., & Co.: 1 Rustic Vase and Filling.

187 O'Brien, P. J.: 1 Single Buggy, without Paint or Putty. div 5, B, gal

188 Peirce, W. H., & Co.: 16 Photographic Views, 4 Water Color Pictures, 1 India Ink Design, 1 Painted Cabinet. art gal, rm 3

The photographic views exhibited by this firm are of an exceptionally artistic character; as, in fact, are the water color pictures also. All those who admire handsome photographs skillfully executed, should examine this display.

189 McLellan Mrs, Mary L.: 1 portrait of a gentleman. art gal, rm 3

190 Hasler, Miss: Hand Painted China, containing 20 pieces. art gal, rm 2

191 S. F. & Pacific Glass Works: Glass Ware, such as Bottles, Fruit Jars, Demijohns, Flasks, etc., and Patent Demijohn Boxes. div 4, sec E

192 Burk, J. H.: Model Fruit Dryer, Patent. div 7, sec I

193 Bemis, Mrs. E. N.: Silk Patchwork Quilt. div 1, sec O, gal

194 Eastman, E.: 2 Painted China Plates, 1 Painted and Tile. art gal, rm 2

195 Kaltschmidt, Oscar: Oil and Water Color Paintings. art gal, rm 2

196 Davis & Co., E. D. W.: 6 Fire and Burglar Proof Safes. div 2, sec P and G

197 Naglee, H. M.: Cal. Grape Brandies. div 4, sec F

GUARANTEES.—My brandies are made of the most valued of all of the French and German wine grapes, and they are the only brandies, foreign or native, that depend entirely upon the character of the grape of which they are made for their exquisitely delicate bouquet and flavor. They are GUARANTEED TO BE ABSOLUTELY PURE, and to be made of the "*premier crus*," or the FIRST RUN OF THE JUICE OF THE GRAPE WITHOUT PRESSURE. The wines are fermented, and distilled very slowly, with the greatest cleanliness and care, with but one object, and that to make in California a brandy superior to all others, regardless of the cost.

All foreign brandies are made from inferior wines, and are, necessarily, artificially colored and flavored, and are known and appreciated wholly from the artificial materials used by Messrs. Martel, Sazerac, Hennessy, and others.

It will be seen on perusing the various testimonials that there is a consensus of opinion among gentlemen in the highest social and scientific walks of life that they had not, before becoming acquainted with the "*Naglee Brandy*," met with its equal in all the best properties of that spirit. The extreme care with which it is prepared from pure wine, naturally claims for it purity of origin; while the perfection of every appliance for distillation and storage entitles it to be called *absolutely pure*. And such it has proved to be after being subjected to chemical analysis, and every known test of genuineness and purity. The testimony of so many eminent physicians and experts in brandy serves to show how readily the human instinct inclines in favor of pure and wholesome food or drink when such can be obtained.

HENRY M. NAGLEE.

San Jose, Aug. 23, 1880.

198 Freud & Sons, M.: 2 cases Corsets, Home-made. div 2, sec Y

199 Spangenberg, Mrs. A.: Patchwork Silk Bed Quilt, 2 ottomans, 2 Sofa Cushions, 1 foot stool. div 5, sec B, gal

This is silk patchwork and embroidery, all hand-made, of the finest materials. It consists of sofa cushions, ottomans, lace work and tidies. Tickets at 50 cents each are to be sold, with which these articles will be drawn at the close of the fair.

200 Wyntjens, Miss Mary: 1 Lamp Extinguisher. div 6, sec Q

This exhibit is an ingenious device for extinguishing lamps instantly, and without trouble or annoyance. It consists of a long hollow tube curved at one end, which end is inserted in the chimney of the lamp, while the person at the other end places their lips over the mouth-piece and with one puff the lamp is extinguished. Patent is applied for. For sale, wholesale and retail, by F. Wyntjens, Coal-oil Depot, 241 Eighth street, San Francisco.

201 Cowan & Co.: Florida Water, Bay Rum, Lime Juice, Flavoring Extracts, Essence of Jamaica Ginger and Lachambeau's Kalendine. div 6, sec Q

202 Simon, John: Door Knob Alarms. div 7, sec R

This is an ingenious invention to prevent sneak thieves and burglars, who prowl around to steal clothing or other articles from rooms or dwellings, from accomplishing their object. The alarm is so arranged that by turning the door-knob to the right or left two distinct alarms are sounded. There is a contrivance attached, by which the alarm can be switched off when not wanted. These knobs can be placed on any door at small cost. The patent, as a whole, is for sale. Address of inventor and owner is John Simons, 904 Washington St., Oakland.

203 Dutertre, L.: Oil Painting, "The First Mass in Monterey." rm 2, art gal

204 Baxter & Blank: Oil, Water Color, Crayon and India Ink Photographs. art gal, rm 3

205 Brown, C. B.: Brown's Patent Flour Box and Sifter Combined. div 4, sec V

This useful invention is a great blessing to housekeepers. It consists of a box into which the flour is poured, beneath which is a sifter, which, by the turning of a crank, precipitates the flour already sifted into a receptacle, when it is ready for use. This prevents the annoyance of sifting the flour all over the table, as the old-fashioned sieve did. Orders received at pavilion or at No. 17 New Montgomery St.

206 Cole & Kenny: Brooms, Brushes and Whisp Brooms. div 6, sec H

207 Toplitz, Monroe: 2 Framed Crayons. rm 3, art gal

208 Wigger, Mrs. Rosa: Needlework, Tatting, Worsted Work, Ornamental Leather Work. div 5, sec B, gal

This exhibition comprises beautiful designs in worsted and silk embroidery, tidies, tatting, crocheting, needlework, and various kinds of fancy worsted work. Also, ornamental leather work, pincushions, bureau and toilet mats, lace work, mantel ornaments, dolls' clothes, smoking sets, hand bags, air castles, wall pockets, net shawls, opera hoods, etc. Mrs. Rosie Wigger, No. 635 Sutter St.

209 Miller, Geo.: 1 Framed Architectural Design. rm 2, art gal

210 Wilson, Frank H.: 1 Engineering Drawing of a Howe Truss Bridge. rm 3, art gal

211 Barreda, F. F.: 1 Engineering Drawing of Pile Supporter. rm 2, art gal

212 Aaron, D.: Machine-made Button Holes. div 1, sec P, gal

213 Standard Soap Co.: General Assortment of Soaps; California-made Candles. div 4, sec G

214 Utschig, John: 1 Case Boots and Shoes. div 4, sec T

215 Betts Spring Co.: Carriage, Buggy, Wagon and Car Springs. div 3, sec V and W

216 Fuller, Geo. C.: Home Manufactured School Furniture. div 4, sec X

217 Heywood Bros. & Co.: Rattan Furniture. div 4, sec Y and Z, gal

218 Continental Oil and Transportation Co.: Illuminating Oils, Light and Dark Lubricating Oil. div 6, sec M

219 Boesch, E.: Locomotive and Mining Head Lights, Frink's Reflectors, Street, Ship, Couch, Center Car, Central Mill Lamps; Plumber's Copper Ware, Metal Spinning, and Pressed Sheet Metal Architectural Ornaments. div 2, sec A

220 Sheehy M. M.: 1 Piece Embroidery on Cambric for Ladies' Skirt. div 1, sec U

221 Weston, N.: Unique Photographs. rm 3, art gal

222 Dodge, M. B.: Dodge Rock Breaker. div 7, sec W

223 Kittredge, Jonathan: Fire and Burglar Proof Safes. div 2, sec P and Q

224 Howatt, Mrs. G.: 1 Fancy Leather Work (Bracket), 1 Framed Motto in Wax, 1 Framed Washington Head in Wax. div 1, sec E, gal

225 Morrison, R. R.: Double Impulse Chronometer, Mosely's Screw Toll Stocks, Polishing Heads and Three-jawed Chucks, Morrison's Main Spring Winder and Extractor. div 5, sec Q and R

226 Morrison, R. R.: Lancaster Watches. div 5, sec Q and R

227 Pettee, Mrs. J.: Basket Wax Flowers. div 1, sec K, gal

228 Zerr, Caspar: Satin-lined Straw Basket. div 1, sec U, gal

229 Whittier, Fuller & Co.: General display of Lead and its Manufactures, Plate Glass Mirrors Silvered in Cal., Prepared Paints, Rorieer White Mixed Paints, Artist Materials, Varnishes. div 4, sec E

230 Naber, Alfs & Brune: Wines, Bitters and Phœnix Whisky. div 3, sec S and T

231 Brown, Chas., & Son: Winthrop and Belmont Ranges, Granite and Plated Ware. div 1 and 2, sec L and M

232 Burcelle, J. R.: Row Boat. div 2, sec C

233 Naglee, H. M.: 7 Bottles Charbonneu Wine. div 3 and 4, sec B

234 Pupils of Carl Eisenschimel: Specimens Penmanship and Drawing by Trinity School, City College, Bates University, San Mateo Military Academy, Zeitska Institute, Urban Academy. rm 3, art gal

235 Hatch, W. O.: Compound Insect Powder and Patent Machine for using same. div 4, sec V

236 Kerr, David: Two and One-horse Truck, 1 Set Wagon Wheels, ½ Set Truck Wheels, 2 Sets Buggy Wheels. div 2, sec Y and W

237 Starkweather, J. B.: "'49ers," or Photographic Views of Old Times in California. rm 2, art gal

238 Juergenson, Chas.: Aquarium and Table. div 3, sec M

239 Groth, Chas.: Advertising Box. div 3, sec O

240 Savage, Col. Richard: 1 Gilt-framed Portrait in India Ink. rm 2, art gal

241 Heald's Business College: Specimens of Penmanship and Pen Drawing. rm 3, art gal

The exhibit of Heald's Business College is the largest and finest collection of elegant penwork ever seen on this coast. If the instruction given at this College is as much superior to others as the superiority of this exhibit, it is no wonder that their school rooms are always crowded, and that parents have no doubts as to *where* to send their sons to obtain a thorough business education. The telegraph department of Heald's Business College is superior to anything of the kind on this coast.

242 Marsh, G. T. & Co.: A large variety of useful and fancy Japanese Goods. rm 2, art gal

243 Heald's Business College: Telegraph Instruments and Stand. div 3, sec L

244 Shreve, Geo. W.: Guns, Pistols and Sporting Goods. div 4, sec K

245 Stettin, Mrs. H.: 2 cases Linen and Chenille Embroidery, 3 Embroidery Pictures of Silk and Chenille. div 1, sec R

246 Mulford, Evaline: 1 Framed sample of Penmanship. rm 2, art gal

247 White, Mrs. Wm.: 1 Framed Picture of a Cow's Head in India Ink. rm 3, art gal

248 Wenzel, Geo. L.: Wine and Cider Press. div 5, sec T

249 Snell, E. L.: Crotched Afghan. div 1, sec L, gal

250 Ryder, Miss Emily S.: Paintings on Porcelain. rm 2, art gal

251 O'Leary, Miss Ellen: 1 White Crochet Bed Quilt, 1 White Knit Bed Quilt. div 1, sec U and V, gal

252 Miller, Philip S.: 1 case of Harness Buckles. div 5, sec A, gal

253 Nast, Greenzweig & Co.: 1 Case of Plated Ware and Jewelry. div 4, sec O

254 Magner, Sarah: 1 pair Crochet Pillow Shams, 1 Crochet Tidy, 1 Crochet Sofa Set (3 pieces). div 1, sec P, gal

255 Mackay, Alex.: 31 Bundles Carpet Warp, 6 pieces Rag Carpet, 2 pieces Ingrain Carpet, 12 pieces Tapestry Carpet, 2 pieces Matting. div 3, sec U, gal

256 Deal Woo (Chinaman): 1 Landscape, on concave circular, 1 Framed Picture of Fuchsias and Pansies. rm 3, art gal

257 Keogh, John: 5 Bales Moss, 24 Rolls Curled Hair. div 3, sec G, gal

258 Dwyer, Miss Agnes: 1 Pillow Sham. div 1, sec Q, gal

259 Ham, J. W.: 6 Cameo Oil Paintings. rm 2, art gal

260 Sims, J. R.: 2 Portraits, 2 Landscape Pictures. div 1, sec P, gal

261 Prydz, Mrs. Eliza: 1 Worsted Worked Sofa Cushion. div 1, sec Q, gal

262 Harris, Miss A. H.: 11 pieces Hand-worked Lace. div 1, sec U, gal

263 Prydz, Mrs. Eliza: 1 Worsted Embroidered Rug. div 5, sec T

264 Wilkinson, Richard: 1 Apple Parer. div 5, sec T

265 Beeman, Wm.: 1 case Artificial Limbs, Surgical Appliances, Trusses, etc. div 1, sec K, gal

266 West, Mrs. C. A.: 1 Silk Quilt, 1 Calico Quilt. div 1, sec K, gal

267 Morressey, John: 1 Marble Chair, 1 Marble Shoe. div 8, sec H and I, gal

268 Pacific Saw Co.: Saws, all varieties, Planing and Currier's Knives, Saw Mandrils, Reaping and Mowing Machine Sections. div 8, sec H and I

269 Spaulding, N. W.: Circular Saws with Inserted Teeth, also Separate Saw Teeth. div 8, sec H and I

270 Woodbury, Mrs. C. C.: Woodbury's Vegetable Expectorant. div 1, sec O, gal

272 Reagan, Miss Theresa: 1 vase of wax-flowers. div 1, sec K, gal

273 Perry, Joseph A: Carved Wood Fan made with a Pen-knife. div 1, sec L, gal

274 Taylor, Wilson G.: 2 Panel Pictures Painted on Jappaned Tin. rm 2, art gal

275 Benn, J. S.: 1 Frame of Artificial Flies. rm 2, art gal

276 Cardinell, Mrs. D.: 1 Rag Mat. div 1, sec L, gal

277 Cummings, Roger: Violin made in the year 1711. div 1, sec L, gal

278 Bach, Meese, & Co.: Budweiser Beer, California made Wines and Brandies, Whiskies. div 3, sec I

279 Milne & Gants: Milne & Gants Patent Sanitary Water Closets. div 5, sec N

280 Nahl Perhaw: Frame of Pencil Drawings. rm 2, art gal

281 Nahl, Arthur C.: Frame containing Pencil Drawings. rm 2, art gal

282 Hottua & Hansen: Rockaways and Buggies. div 5, sec A, gal

283 McCown, Wm. M.: Model of McCown's Patent Rein Holder. div 3, sec X

284 Holder, E, J.: Holden's Ethereal Cough Syrups, Patent Medicines. div 6, sec L

285 West, W. F.: Patent Portable Grist and Chop Mill. div 7, sec S

286 Wakefield Rattan Co.: Rattan Furniture, Baskets, Mats and Matting. div 2 and 4, sec Z, gal

287 Kelley, P.: Ladies' Fancy Shoes, Gents' Patent Shoes. div 4, sec T

288 Gilbert & Moore: School, Office, Church and Library Furniture; Hartford Woven Wire Mattresses; Iron Bedsteads with Woven Wire Mattresses; Wire Hammock Cots, Canvas Cots, Store Stools. div 4, sec T, U and V, gal

289 Reed, Robt.: 1 Case Containing Artificial Limbs. div 4, sec X

290 Gilmore, Mrs.: 1 Pair of Lace Pillow Shams. div 1, sec U, gal

291 Campbell, Mrs.: 1 Pair Lace Pillow Shams. div 1, sec U, gal

292 Sanders & Co.: Copper Beer Kettle and Distilling Apparatus. div 7, sec K

293 Garratt, W. T.: Hooker's Patent Direct Acting Steam, Vertical and Plunger Pumps; Hooker's Patent Steam Pump and Boiler Combined; Hooker's Patent Double Acting Mining and General Purposes Suction and Force Pumps; Hooker's Patent Double Acting Hand and Windmill Pumps; Hooker's Patent Ship Pumps; Boiler Feed Plunger Pumps; Safety Valves for Steam Boilers; Boiler Injector, "Little Giant;" Low Water Indicator for Steam Boilers; Lifting Jack for Mills and Lumber Men; Street Fire Hydrants; Hose Couplings; Iron Flanged Globe Valves, Outside Screw, Finished; Sample Wrought Iron Pipes, and Boiler and Brass Tubing; Sample Glass Tubes for Tanks; Coffin's Patent Water and Gas Gates; Root's Patent Portable Forge and Blowers; Stoddard's Patent Steam Condenser; 1st Commercial Copper, California Production and California Refined; Bells, Gongs for Steamboats and Miners; Assortment of Steam and Plumbers' Brass Goods; Hydraulic Nozzles and Joints; Brass, Double and Single Acting, Wine Pumps; Steam Gauges; Water Gauges, with Scotch Glass Tubes; Lubricators and Oilers; Railroad Journal Metal. div 6, 7, 8, sec K, L, M and N

One of the finest and most meritorious displays in the pavilion now on exhibition is that of W. T. Garratt's, under the management of A. F. Allen, who kindly and courteously entered into minute description of the vast number of mechanical exhibits allotted to his space. Among the most prominent features are the 13 different steam pumps, ranging in capacity from

300 gallons to 50,000 gallons per hour. Bells are here seen, finished in the best manner, and are guaranteed to equal in tone any made in the world; fire hydrants, of which Mr. Garratt owns the patent, are found in this display, and they may justly be termed superior to any in the market; water gates, gas gates, ship's pumps, and in cases along the wall are seen all kinds of brass goods, both for steam and plumber's use. These are finished up in the highest polish, and will equal in beauty any exhibition of brass goods that have appeared in Eastern fairs. Boiler and engine are combined, also pump and boiler, thus adding economy to utility in their manufacture, all of which are manufactured by Mr. Garratt at his brass and bell foundry, corner of Fremont and Natoma Sts. We noticed also some fine specimens of California copper, California refined. This is the first California copper ever offered in this market, and is equal to Lake Superior copper, Baltimore refined, which our manufacturers have till lately depended upon.

294 Schoone, C.: Marble Inlaid Table Top. rm 2, art gal

295 Gabelmann, Louis: Model of Grain Separator. div 7, sec R

296 Cotter, Mrs. J. E.: 1 Frame Containing Wreath of Preserved Flowers. div 1, sec O, gal

297 Ainswsorth, D.: Patent Arch, Fire Kindler. div 6, sec P

298 Espina, P. A.: Pen Drawings and Penmanship. rm 3, art gal

299 Mathews, H. E.: Audiphones. div 6, sec M

300 Adams & Carter: Frue Ore Concentrator, Upright Engine. div 8, sec V

THE FRUE ORE CONCENTRATOR OR VANNING MACHINE.—The sales of the Frue concentrator exceed one hundred and sixty thousand dollars ($160,000.00), and in all cases has proved its superiority over the Hendy, the Scofield, the blanket sluice, the raising gate and rocker, the sluice and buddle, and any other method of concentration known.

For localities where water is scarce, the Frue has the advantage over any other concentrator, that the amount of water required is small. For one machine one-half inch of water, miners' measure, or six and one-eighth gallons a minute, is as large an amount as is ever needed on any material; while on some ores three gallons are sufficient. The capacity of each machine is from six to eight tons in 24 hours. The power required to drive them is not over one-half horse power per machine. The labor required is very small—one man on a watch can attend to 16 machines. The wear and tear is merely nominal; the belt is rubber with raised sides, and will last for years, and any part of the machine can be replaced by us with a duplicate which will be its exact counterpart. The weight of each machine boxed ready for shipment is 2,200 lbs; no part weighs over 250 lbs. The price of each machine is $750, U. S. gold coin, at the works in San Francisco. Orders can generally be filled on four days' notice.

These machines are now in successful operation in many of the mining districts of California and Arizona, Colorado and Montana, and elsewhere; and numerous testimonials, to be seen at our office, prove their *perfect* work. For terms and further information, please address Adams & Carter, Agents, Room No. 7, 109 California St., San Francisco, Cal.

301 Bauer, J. A.: Berlin Cinchona Stomach Bitters and Family Ice Cream Producer. div 4, sec J

302 Nelson, John B.: Frame Containing Design of Monogram of the English Alphabet, Original. rm 3, art gal

303 Begg, J.: A Collection of the Native Grasses of California, including some new varieties; also new Textile Plants and varieties of Cereals and Wild Oats. div 1, sec D

304 Fenn, F. C.: Meat Shavers and Twine Cutters. div 6, sec M

305 York, W. R.: Painters' Patent Scaffold. div 2, sec K

306 Redington & Co.: Pharmaceutical Preparations, consisting of Chemicals, Medicinal Fluid Extracts, Elixirs, etc., and R & Co.'s Florida Water. div 4, sec I and J

307 Hopps, H. R.: Pencil Drawing. rm 2, art gal

308 1 Frame Containing Portrait Entitled "The Old Veteran." rm 2, art gal

309 Phillippi, M.: 1 Oil Painting Entitled "Hamlet." rm 2, art gal

310 Schroder, J.: Wax Fruit, Flowers and Colored Grasses. rm 2, art gal

311 Ebright, E.: Laney's Lift Pump. div 6, sec N

312 Henriksen, B. E.: Automatic Safety Clutch. div 7, sec M

This is the simplest and most ingenious safety clutch now in use. Its reliability was severely tested at the elevator accident which occurred at No. 120 Sutter St., on August 18th, when five persons escaped serious injury by the prompt action of this clutch. The patentee claims: That it can be readily attached to any kind of elevator; that it is actuated by the too rapid descent of the cage—the greater the speed the quicker the action, the heavier the load the tighter the grip; that it sets itself automatically; that it is always ready for use.

313 Durden, Mrs. M.: Frame of Autumn Leaves in Oil. rm 3, art gal

314 Grosvenor: 3 Painted Sketches on Wooden Plates, 3 Paintings. rm 3, art gal

315 Gregory, E.: 2 Frames Fern Work. rm 3, art gal

316 Hasler, Miss: 2 Water Colored Paintings, 1 Painting on Silk. rm 3, art gal

317 Tidball, Scott: 2 Crayon Portraits. rm 3, art gal

318 Pearson, C.: 1 Water Colored Painting. rm 3, art gal

319 Taylor, Wilson G.: 2 Oil Paintings on Tin. rm 3, art gal

320 Weister, Mrs.: 2 Oil Paintings on Tin. rm 3, art gal

321 Strauss, M.: 1 Oil Painting. rm 3, art gal

322 Hamilton: 1 Marine Sketch. rm 3, art gal

323 Walton: 1 Water Colored Sketch. rm 3, art gal

324 Burgess: Painted Portrait. rm 3, art gal

325 Cushing, Robt. C.: Water Colored Painting of "Rip Van Winkle." rm 3, art gal

326 Elite Photographic Studio: Large Crayon Drawing (Life Size); Photographs Retouched in Crayon (Life Size); Frames of Boudoir and Cabinet Photos; Water Colored Photographs; Colored Porcelain; Direct Photographs (Life Size). rm 3, art gal

327 Watkins & Co.: Photographic Views of Pacific Coast and Arizona. rm 3, art gal

328 Barnard's Business College: Pen, Ink Sketches, and Penmanship. rm 3, art gal

BARNARD'S BUSINESS COLLEGE.—This work is all real pen work by Prof. E. W. Barker. No brush work or drawing by mathematical instruments, or any other rudimentary work is contained in this collection. All the work is proved to be genuine by the splendid display made nightly by Prof. Barker, who executes, in the presence of visitors, work equal to any in the exhibit. This display of fine work has caused Barnard's Business College to take the lead in beautiful pen work. The large French plate glass in the central picture, 60 by 84 inches, which alone cost $135, shows that neither pains nor expense has been spared by Prof. Barnard in making up his exhibit.

329 Cal. Furniture Manf'y Co.: California made Furniture. div 2, sec Z, gal

Goods entered for premium and on exhibition at the Mechanics' pavilion: 1 mahogany bedroom set, Egyptian style; 1 walnut set, Queen Anne style; 1 ebony set, bric-a-brac; 1 upholstered dressing table; 1 parlor set, "ponceau brocade;" 1 parlor set ebony frames "Semiramis," old gold and blue trimmings; 1 Queen Anne parlor cabinet, terra cotta panels, ebony and gilt; 1 hall stand, Grecian embossed walnut, and marquetterie and gilt; 1 dining-room set, consisting of sideboard, extension table, and chairs in Russian leather, black and gilt trimmings; ebony and marquetterie center tables, cabinets, music stands, portfolios, pedestals, easy and reception chairs, patent rockers, antique and modern chairs, ottomans and divans; wall brackets, bookcases, hall racks; bouquet tables, gilt and ebony, with plush, onyx and marble tops; lambrequins in silk plush and raw silk, with walnut and gilt poles, new designs; lambrequin maumee cloth; antique sultana lounge, spun silk and plush. 1 gilt reception chair in blue satin embossed hand work; silk plush easy chairs in old gold and crimson.

330 Pacific Fertilizing Co.: Artificial Fertilizers and Animal Charcoal. div 2, sec I

331 McCollam, Thos. W.: Fishing Gear, and Samples of Cured Pacific Coast Codfish. div 6, sec D

332 Craven Sisters; Paper Dress Patterns. div 2, sec Y, gal

333 Hill, A. B.: Oriental Tablet. div 3, sec V, gal

334 Teubner & Hoffman: Show Cases. div 3, sec S, gal

335 Kolb, J.: Patent Kitchen Tables. div 3, sec R, gal

336 Stark & Combes: Combes' Magic Healing Powder, Stark's Catarrh Remedy. div 3, sec H, gal

337 Marwedel, E. H.: Stair Rods, Upholstering and Trimmings. div 4, sec J, gal

338 Hammer, L. K.: Chickering's Pianos. div 4, sec K and L, gal

339 Jackson, A.: Pantorologue. rm 2, art gal

340 Sievers, Mrs. C.: Hair, Worsted and Tarleton Flowers. div 1, sec K, gal

341 Erdin: Erdin's Kitchen Cabinet and Extension Table. div 5, sec B, gal

342 Kendelberger, J.: Universal Pillow Sham Holder. div 5, sec B, gal

343 Snow, John F.: Redressed Crape. div 5, sec B, gal

344 Hall, C. R.: Hall's Pianos. div 3, sec I, gal

345 Renard's Pastilles de Paris. div 5, sec B, gal

346 Studebecker, J. A.: Studebecker's Tailors' Square. div 5, sec B, gal

347 Clark, G. W.: Interior Decorations, Wall Paper. div 5, sec A, gal

This extensive exhibit in the southeast corner of the gallery is well worth a careful study. In looking over the domestic art manufactures of the present day, as we see them exhibited in the pavilion, every careful observer becomes conscious that an important impetus has recently been given to the beautiful in almost everything that enters into the needs and comforts of our every-day lives. The art revival of the present day, which was at first confined to the wealthy few, is now pervading almost every home in the land. Even the poorest have a growing desire to combine the beautiful with the useful in all their home surroundings. Ornamentation, when properly employed, always tends to refine, to purify and to elevate. To meet and encourage this growing taste for the adornment of our Pacific homes, Mr. Geo. W. Clark is doing a good work in presenting to the public the most choice styles of carpets, wall-papers, freizes and ceiling decorations, obtained from the most celebrated dealers in such goods in Paris and London. Paper ceilings especially are rapidly coming into use here, and taking the place of the blank white walls which have for so long a time presented their monotonous and inartistic faces to our eyes. The

change is a most desirable one, and all in need of such improvements will do well to visit the establishment of Mr. Clark, at 645 Market st.

348 Halpruner, Dr.: Healing Salve. div 1, sec L, gal

349 V. L. "Cement" Co.: V. L. Cement. div 3, sec O, gal

350 Holmes, W. Henry: Wall Paper and Paper Decorations. div 1, sec W, gal

351 Borneman, E.: 1 Row Boat, the "Dolphin." div 2, sec C

352 1 Row Boat, the "Gov. Perkins." div 2, sec C and D

353 Mason, J. R.: Case "One Mile End" Spool Cotton. div 3, sec M, gal

354 Trumbull, R. J., & Co.: Seeds and Lawn Mowers. div 2, sec I and J

355 Goodrich, Taylor: Magee's Ranges and Stoves. div 1 and 2, sec O and P

356 Parke & Lacy: Babcock, Conley and Champion Chemical Engines. div 2, sec T and U

357 1 Buck Board Wagon. div 2, sec W

358 Jackson, Byron: Jackson's Improved Feeder and Elevator for Separator; Jackson Light Weight Forks. div 2, sec X

359 1 Gang Plow. div 2, sec Y

360 Merrill, I. L.: Reed's Elastic Sectional Non-conducting Covering for Steam Surfaces; Universal Wire Bound Utilized Asbestos, and Steatite or Soap-stone Boiler Covering; I. L. Merrill's Soap-stone Cloth Roofing; Display of Asbestos in Pulverized and Crude State. div 3, sec W

This important display of practical and useful articles attracted a great deal of attention from engineers, architects and builders. Reed's covering for steam surfaces has a national reputation. It does not crack or crumble; easily handled; can be applied on pipes while either hot or cold; extreme lightness, being made in sections, and indestructable at any temperature at which steam is used. It has taken the first premium over all others in every trial. The wire-bound covering is largely used, and lasts as long as the iron on which it is applied. The soapstone, mastic cloth roofing surpasses all other known processes for protecting buildings from fire or water. It can be easily applied, and is recommended by the principal houses of this city. The crude asbestos exhibited was from Mr. Merrill's mine in Placer county. The soapstone steatite pulverized and crude showed that the enterprising exhibitor was alive to the wants and industries of this coast, and if only examined would be appreciated. Mr. I. L. Merrill pantentee and proprietor; office and factory 314 Townsend street. Makes estimates and is prepared to fill all contracts in any part of the Pacific coast, or for shipment to foreign ports.

361 American Sugar Refinery: Refined Sugars, Cubes, Ground and Powdered. div 4, sec K

362 Heuter Bros., Home Manufacturers of Varnish: Paint Brushes, Oils and Artists' Material. div 4, sec M

363 Krueger, J. H.: Walking Canes. div 4, sec O

364 Morse, S. T.: Morse's Cement. div 4, sec Y

365 King Lee & Co.: Japanese and China Goods. div 4, sec W

366 Hinkle, P.: Hinkle's Elevator, with Patent Clutch and Models of same. div 2 and 5, sec Y and Z

367 Karner, Anton: 1 Silk Wheel in Bottle. div 1, sec V, gal

368 Pacific Ink Factory: Writing Fluid, Mucilage and Blueing Extract. div 6, sec G

369 Southenirs, Mrs.: Toilet and Medicinal Preparations. div 5, sec B, gal

370 Hill, M. E.: Ladies' and Children's Aprons. div 5, sec B, gal

371 King, H.: Ventriloquist Whistle, Toy Buzz. div 5, sec D, gal

372 Domett, E. M.: Blanchard's Food-cure Preparations. div 5, sec D, gal

373 Ketchen, J. E.: Rubber Stamps. div 4, sec V

374 Groth, Chas.: Advertising Boxes. div 3, sec O

375 Steen, E. T.: 1 Ore Battery and Feeder; Patent Pipe Coupling. div 8, sec U

376 Parke & Lacy: Fitchburg Steam Engines, Engine and Compound, Centrifugal Pumps, Vertical Sinking Pump, Isochronal Sinking Pump, Bucket Plunger Pumps, Balance Wheel, Dean's Steam Pump, Hoisting Engines, Steam Gauges and Inspectors. div 6 7 8, sec P and M

377 Bancroft, A. L., & Co.: Lithographing Materials. div 5, sec Q

378 Townsend, W. T.; Fancy Candy and its Manufacture. div 5, sec M to P

379 Cipher, E. S.: Pop Corn Balls; Machinery for making the same. div 5, sec L and M

380 Herrick, H. P.: J. H. Culver's Patent Pneumatic Safety Stop for Elevators. div 3, sec X

381 San Francisco Furniture Co.: Cottage Furniture, Folding and Ironing Tables. div 4, sec Y

382 Taylor, John, & Co.: Assayers' Materials, Chemist and Druggist Glass Ware. div 4, sec I and J

383 Arms & Dallam: Wooden Ware, Brooms Brushes, etc. div 6, sec E and F

384 Garcin & Baldwin: Argus Door Wicket. div 6 sec P

385 Krogh, F. W.: Horse Powers. div 7, sec O

386 Ætna Iron Works: Propeller Screw; Rock Crusher. div 7, sec S

387 Macdonald, D. A. & Co.: Samples of Band Sawing; Block of Wood, labeled "Natural Curiosity." div 7, sec S

388 Brinckman: Crusher and Pulverizer Combined. div 7, sec W

389 Barber, C. J. & E. T.: Waugaman's Patent Dry Crusher. div 8, sec S

390 Gale, A. O.: Balance Valve Cut-off Engine. div 8, sec R

391 Howatt, Mrs.: 2 Framed Wreaths of Flowers; 2 Framed Cases Butterflies. div 1, sec E, gal

392 Bosqui, Ed.: Book Binding and Lithographing. div 1, sec D

393 Harris, David: Harris Patent Umbrella.

394 Sturdevant, R. O.: Water Filters. div 6, sec P

395 McDermot, John: Sun Dial. div 1, sec H

396 Ford, Mrs. Mary A.: Tapestry Fringed Rug. div 3, sec U

This exhibit attracts much attention; is made of tapestry carpet; a marvel of ingenuity and economy. Lessons given at 121 Sixth street.

397 Dampf, Louis: Passe Partouts. div 2, sec Z

398 Thompson, G. L.: Soda and Cider Fountains.

399 Wallace, Chas. D.: Model of Ship, "California." div 2, sec D

400 Hartmann & Freese: Patent Swings. div 7, sec B

401 Morganthau, B.: 1 Framed Pencil Sketch (Head). rm 2, art gal

402 Weed & Kingwell: Brass Goods and Bells. div 7, sec J

403 Allen, I. S.: Bows and Arrows, and Archery Goods. div 1, sec T, gal

404 Huntington, F. A.: Oscillating Stamp Mill. div 8, V and W

405 Keogh John: Samples Bed Springs and Feathers. div 3, sec G, gal

406 Levake & Grubb: "New Era" Water Closet. div 6, sec T

407 Pettee, Mrs. J.: Wreath of Wax Flowers. div 1, sec K, gal

408 De Cardona, Leo: 2 Crayon Drawings and 1 India Ink Drawing. rm 3, art gal

409 Ohmen, W. H.: Boiler and Vertical Engine Combined, 1 Vertical Engine, 1 Horizontal Engine. div 7, sec Q

410 Moore, S. T.: Centennial Cement, Jig Saws, Rubber Stamps, Stencils. div 3, sec V

411 Giant Powder Co.: Giant Powder. div 4, sec O

412 Hartshorn & McPhun: Window Shades and Fixtures; Manufacturing Oil Cloth. div 2, sec X, gal

413 Hartshorn & McPhun: Carpets, Mats and Rugs. div 2, sec X, gal

414 Gates, Jas. H.: Pepsin Wine Bitters. div 2, sec J

415 Peters, C. T.: Full-rigged Ship, the "Golden Eagle." div 2, sec D

416 Kitzmuller, M.: 1 Rockaway, 2 Phaetons, 2 Extension Buggies, 1 Side Bar Buggy. div 4, sec C, gal

417 Perkins, Gov. Geo. C.: 2 Patent Hubs. div 5, sec A, gal

418 Ridgeway, C. W., & Co.: 2 Lounges, 2 Spring Mattresses, 1 Hair Mattress. div 3, sec J, gal

419 Dawes, J. T.: 2 Aquariums. div 4, sec L

420 Taber, I. W.: Plain, Crayon, India Ink and Water Colored Photographs, and 1 Oil Painting. art gal, rm 3

421 Cousens, Mrs. J.: 1 Rag Mat. div 1, sec L, gal

422 Reynolds, L., & Co.: Diamond Drill, Drill Rod and Bit. div 6, sec I

423 Tubbs & Co.: Rope and Cordage. div 4, sec F

424 Cavanagh, Ed.: Scroll Sawing. div 1, sec O

425 Linforth, Rice & Co.: Steel Bells and Fittings, 1 Lawn Mower. div 7, sec I

426 Bloch, A. B. I.: 1 Frame Containing Crayon Sketch. rm 2, art gal

427 Anderson, Mrs. Jane: 1 Frame Containing Artificial Flowers made from California Feathers. div 1, sec K, gal

428 Hecht, Joseph: 3 Water Color Portraits. art gal, rm 3

429 Stender, H.: Crayon Portraits. rm 3, art gal

430 Hess, Lewis: Damiana Bitters and Fluid Extract of the same. div 2, sec 1

431 Osborne & Alexander: Smith's Patent Lever Buggy. div 6, sec I

Smith's Patent Lever Buggy. — This wonder of the age may be seen at the pavilion in the shape of a new buggy that runs without the aid of horses, steam or any other propelling force. It may be guided in any direction by hand, up hill or down. It runs with as great ease up hill as upon a level, and has made a mile in four minutes and five seconds, and can easily make from 10 to 15 miles per hour. There is no tiring, as in the velocipede, as no force is exerted by the rider to propel the machine, the weight of the body alone being necessary to put the buggy in motion. It can be kept in perfect control and obeys the hand of the rider as the horse obeys its master. This novel buggy is a four-wheeled vehicle seating two persons, the hind wheels being firmly attached to the axle, similar to car wheels, while the front wheels perform their part like the ordinary carriage wheels, playing upon their axle. The driver sits behind and guides the machine. The front seat is intended for a single person and is elegantly fitted up and upholstered in the best style. Both seats are

mounted upon the latest improved springs, so that the riders may not fear any jolting. This new invention utilizes the weight of the body by setting in motion peculiarily-made levers working upon a solid steel disc attached to the axles. The levers extend from the disc in the same manner as upon a scale. Instead of a "P" on the lever, the weight is regulated upon the lever. There are two sets of levers, the front gauging the weight, while the rear levers lifts the weight, and thus this simple contrivance sets the machine in motion. Capt. Budd Smith is the fortunate inventor, and we think there is "millions in it," for horses are no longer necessary or steam or any other expensive attachment to one's riding. The buggy was patented by Capt. Smith in last February, and is now on exhibition for the first time.

432 Liddle & Kaeding: Guns, Rifles, Pistols and Fishing Tackle. div 4, sec Q

433 Scoville, Mrs. Nellie L: Water Color Paintings on Satin Painted Lambrequins. rm 3, art gal

434 Beamish, P.: White Shirts, Underwear, Collars, Cuffs, Neckwear for Gentlemen. div 4, sec R

435 Wenzel, G. L.: Apple Crusher, Model of Wine and Cider Press. div 5, sec T

436 Hoover Telephone Co.: Hoover Telephone in Operation. sec office

437 Crandall, J. R.: Apple Parer and Slicer. div 7, sec I

438 Waterman, E. R.: Adjustable Shelving. div 1, sec H, gal

439 Savage, Miss Nellie A.: Afghan Rug. div 1, sec W, gal

440 Russell, E. F.: Russell's Amalgamator. div 7, sec T

441 Henry, Mrs. James: Bead Worked Fire Screen. div 1, sec V, gal

442 Healy, Benj.: 2 Oil Paintings Entitled "Milk in the Wheat" and "Lake Tahoe." art gal, rm 1 and 2

443 Ewing, Geo.: 1 Double Milk Wagon. div 4, sec X

444 Livermore, Gracie: Picture Entitled "Grandmother's Table." art gal, rm 2

445 Kimball, L. P.: 1 Tablecloth Press. div 6, sec V

446 Trueworthy, F. M.: Stencil Plates and Lithographs.

447 Lemon, J. H.: 4 Variegated Marble Columns. rm 2, art gal

448 Campbell, W. G.: Composition for Prevention of Incrustation of Steam Boilers, Eucalyptus Lozenges, Oils, etc. div 3, sec B

449 Merwedel, Miss: Kindergarten Exhibit. div 2 and 3, sec A

450 Deaves & Gossman: Diorama, or Panorama of Moving Mechanical Figures; Realistic Representation of Washington Crossing the Delaware, Battle of Bunker Hill, Shipwreck of the "Golden Gate," and the Royal Marionettes.

An exhibit of moving mechanical figures now on exhibition in the pavilion. An entire change of programme every evening.

451 Brown, Mrs. W. O.: 1 Box Old Relics, Containing Baby Caps and Belt Ribbon made in 1822. div 1, sec S, art gal

452 Teaff, Mrs. James: 2 Crocheted Tidies. div 1, gal

453 Merten, A. F.: Lead Pencil Drawings. rm 2, art gal

454 Hufschmidt, L., & Bro.: Bronze Statuary.

455 Ford, Mrs. Mary A.: Tapestry; Fringed Lamp Mat. div 3, sec U

456 Dean, G. S.: Dean's Safety Nitre. div 6, sec M

457 Robinson, W.: Automatic Vanishing Gate.

458 Ayers, Mrs. J. C.: 1 Patchwork Quilt made in 1805.

459 Enas, J. D.: Observatory Hive of Bees; Samples of Comb and Extracted Honey.

460 Kelson, P. A.: Model of Ship.

461 Gale, Nellie: Charm String of Buttons.

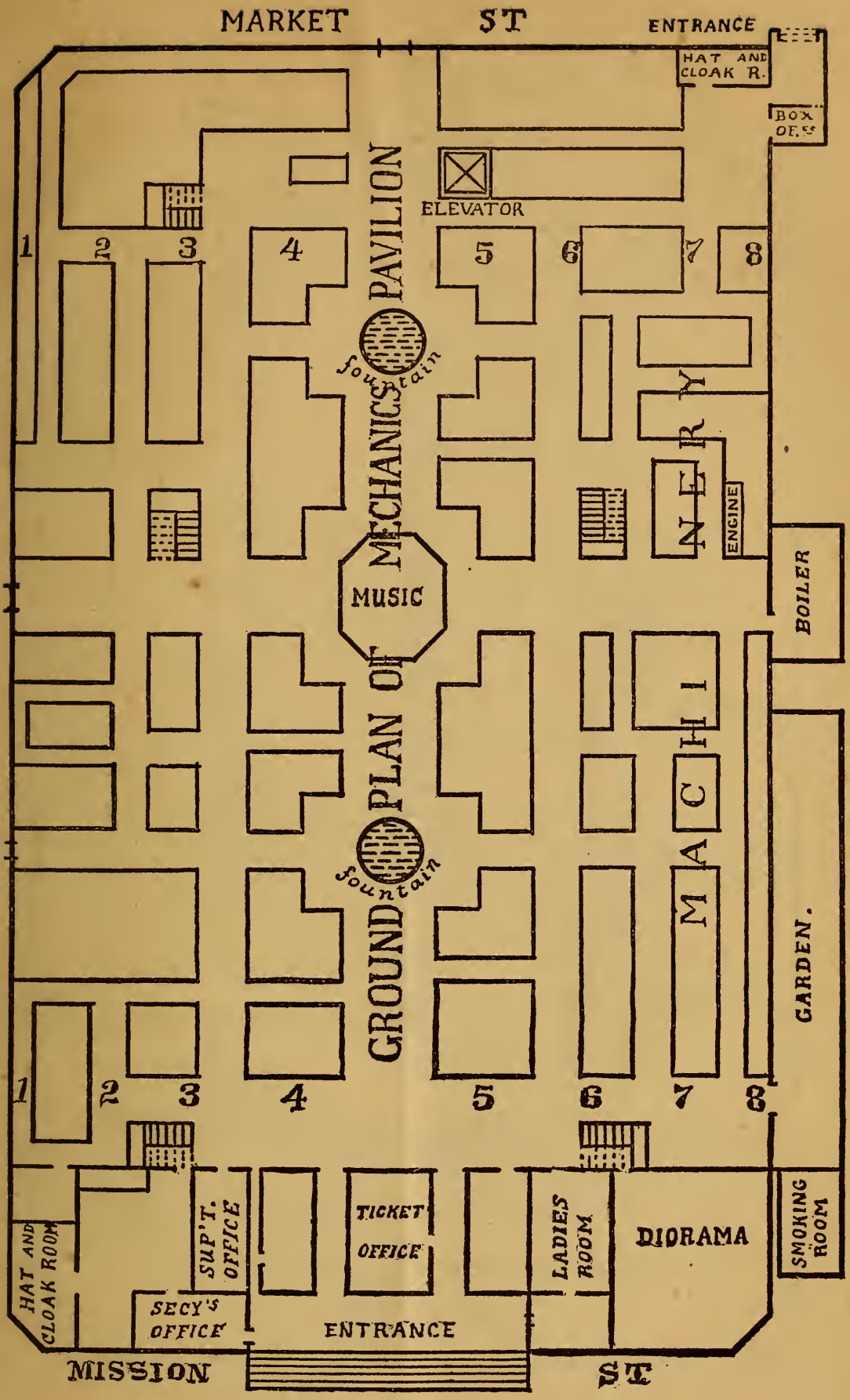
462 Nutter, Mrs. B., 1143 Folsom: Net Lace Curtains and Table Cover, hand worked. div 1, sec F, gal

463 Kavanaugh, Miss M. J.: Worsted Shawl. div 1, sec V, gal

464 Martinez, Miss Lupie; Crotched Bed Spread. div 1, sec M, gal

465 Ligon, Leopold: Picture by Van Dyke. rm 1 art gal

466 Beeman, Wm.: 1 Case Samples of Peruvian, Spanish and Chinese Cork. div 1, sec B, gal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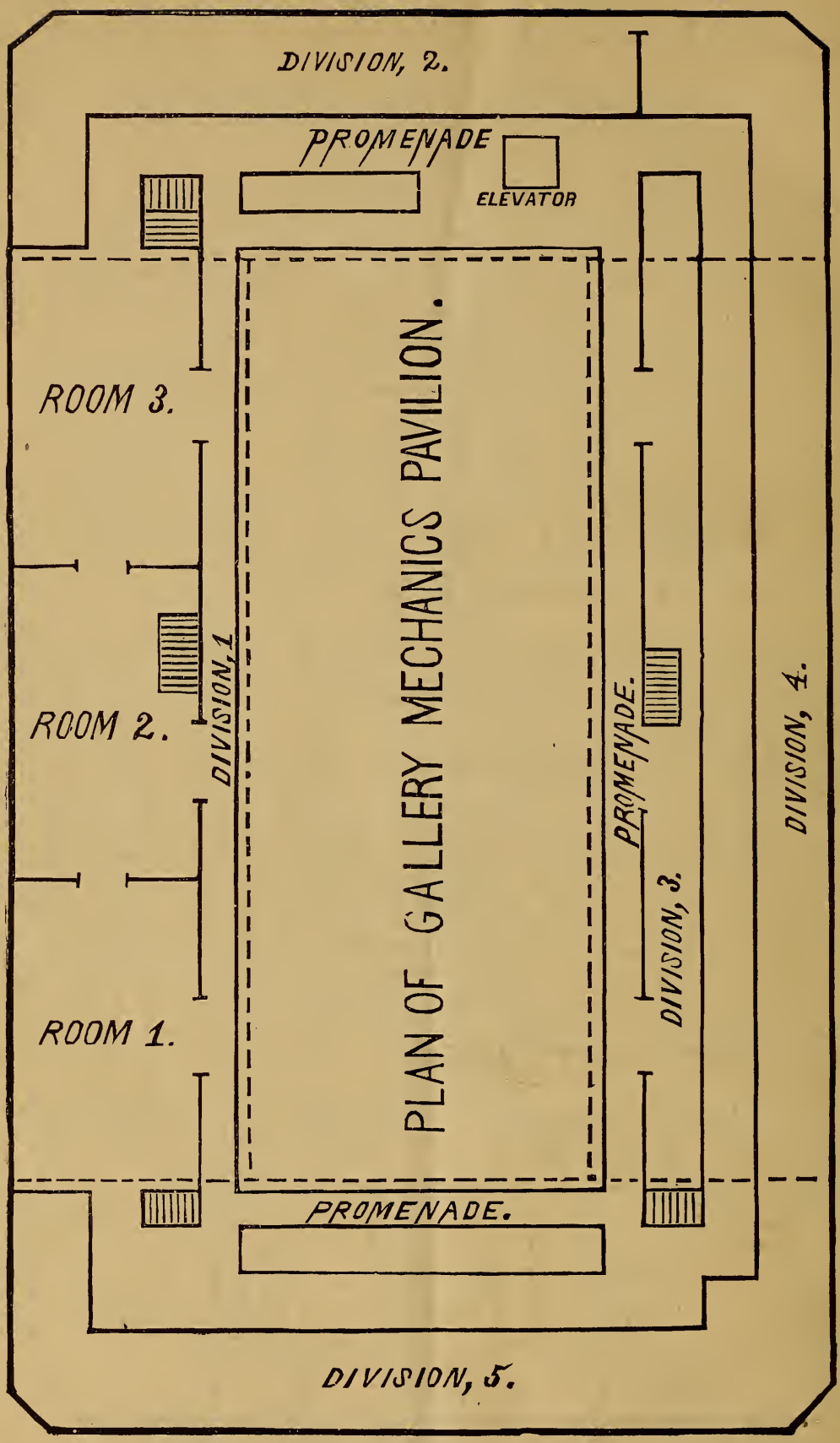
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ROOM 1.
DIVISION, 1
PLAN OF GALLERY MECHANICS PAVILION.
PROMENADE.
DIVISION, 3.
DIVISION, 4.
PROMENADE.
DIVISION, 5.

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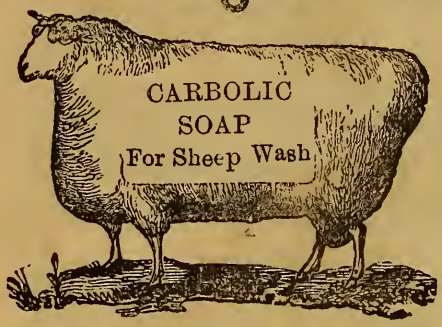

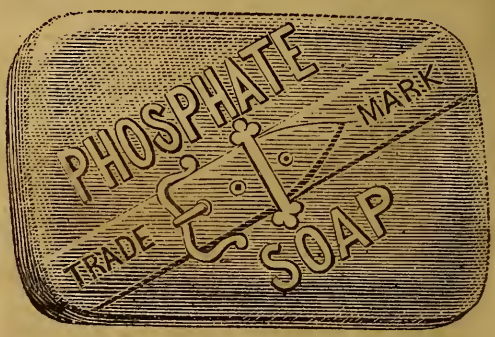

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